

# Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 27.10.2025

Version: 3.0

Date / Previous version: 13.09.2023

Previous version: 2.0

Product: **BUTYLDIGLYCOL**

(ID no. 30034744/SDS\_GEN\_PL/EN)

Date of print 28.10.2025

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

## BUTYLDIGLYCOL

Chemical name: Butyl diglycol

CAS Number: 112-34-5

REACH registration number: 01-2119475104-44-0006, 01-2119475104-44

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: process chemical, solvent(s)

For the detailed identified uses of the product see appendix of the safety data sheet.

### 1.3. Details of the supplier of the safety data sheet

Company:  
BASF SE  
67056 Ludwigshafen  
GERMANY

Contact address:  
BASF Polska Sp. z o.o.  
Al. Jerozolimskie 142b  
02-305 Warszawa  
POLAND

Telephone: +48 22 5709-999 (8:00 - 17:00)  
E-mail address: product-safety-poland@basf.com

### 1.4. Emergency telephone number

International emergency number:  
Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

## 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

|Eye Irrit. 2

H319 Causes serious eye irritation.

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

## Warning

Hazard Statement:

H319	Causes serious eye irritation.
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### Precautionary Statements (Prevention):

P280	Wear eye protection.
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P263	Wear eye protection.
P264	Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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P337 + P313 If eye irritation persists: Get medical attention.

Hazard determining component(s) for labelling: 2-(2-butoxyethoxy)ethanol

### 2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture. See section 12 - Results of PBT and vPvB assessment.

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

#### Chemical nature

2-(2-butoxyethoxy)ethanol

CAS Number: 112-34-5

EC-Number: 203-961-6

INDEX-Number: 603-096-00-8

Substance with EU occupational exposure limit

Eye Irrit. 2  
H319

#### Regulatory relevant ingredients

2-(2-butoxyethoxy)ethanol

Content (W/W):  $\geq 75\%$  -  $\leq 100\%$  Eye Irrit. 2  
H319

CAS Number: 112-34-5

EC-Number: 203-961-6

INDEX-Number: 603-096-00-8

Substance with EU occupational exposure limit

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

### 3.2. Mixtures

Not applicable

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

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Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

#### **5.2. Special hazards arising from the substance or mixture**

Advice: The product is combustible. Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

#### **5.3. Advice for fire-fighters**

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

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Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## SECTION 6: Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

### 6.1. Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

### 6.2. Environmental precautions

Discharge into the environment must be avoided.

### 6.3. Methods and material for containment and cleaning up

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Prevent contact with air/oxygen (formation of peroxide). Ensure thorough ventilation of stores and work areas. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Take precautionary measures against static discharges.

### 7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

### 7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

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## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

112-34-5: 2-(2-butoxyethoxy)ethanol	
	TWA value 67 mg/m <sup>3</sup> (MAC (PL))
	NDSch value 100 mg/m <sup>3</sup> (MAC (PL))
	TWA value 67,5 mg/m <sup>3</sup> ; 10 ppm (OEL (EU))
	indicative
	STEL value 101,2 mg/m <sup>3</sup> ; 15 ppm (OEL (EU))
	indicative

#### PNEC

freshwater: 1,1 mg/l

marine water: 0,11 mg/l

intermittent release: 11 mg/l

sediment (freshwater): 4,4 mg/kg

sediment (marine water): 0,44 mg/kg

STP: 200 mg/l

oral (secondary poisoning): 56 mg/kg

soil: 0,32 mg/kg

#### DNEL

worker:

Long-term exposure - systemic and local effects, Inhalation: 67,5 mg/m<sup>3</sup>, 10 ppm

worker:

Short-term exposure - local effects, Inhalation: 101,2 mg/m<sup>3</sup>, 15 ppm

consumer:

Long-term exposure- systemic effects, oral: 6,25 mg/kg

### 8.2. Exposure controls

#### Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

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#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

nitrile rubber (NBR) - 0.4 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

#### Environmental exposure controls

All appropriate measures must be taken to prevent the release of this product to the environment and to limit the dispersion of any release when it occurs. Suitable risk management measures should be in place.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	liquid	
Colour:	colourless	
Odour:	almost odourless	
Odour threshold:		
	not determined	
Melting point:	-68,0 °C	(other)
	Literature data.	
Boiling point:	230,5 °C	(other)
	(1.013,25 hPa)	
Flammability:	hardly combustible	(derived from flash point)

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Lower explosion limit:	0,69 %(V) 46 g/m <sup>3</sup> (102,2 °C) The lower explosion point of the substance/mixture has been determined. The explosion point describes the temperature of a flammable liquid at which the concentration of the saturated vapour mixed with air equals the lower explosion limit.	(air)
Upper explosion limit:	5,9 %(V) 398 g/m <sup>3</sup> (143 °C) The upper explosion point of the substance/mixture has been determined. This explosion point describes the temperature of a flammable liquid at which the concentration of the saturated vapour mixed with air equals the upper explosion limit.	(air)
Flash point:	105 °C	(ASTM D93, closed cup)
Auto-ignition temperature:	210 °C	(DIN 51794)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
pH value:	(20 °C) neutral, miscible	
Viscosity, dynamic:	6,49 mPa.s (20 °C) Literature data.	
Thixotropy:	not thixotropic	
Solubility in water:	miscible (20 °C)	(other)
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	1 (20 °C; pH value: 7)	(OECD Guideline 117)
Vapour pressure:	0,03 hPa (25 °C) Literature data.	(measured)
Relative density:	0,9553 (20 °C) Literature data.	(other)
Density:	approx. 0,9553 g/cm <sup>3</sup> (20 °C) Literature data.	(other)
Relative vapour density (air):	5,59 (20 °C) Heavier than air.	(calculated)



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#### Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

## **9.2. Other information**

### **Information with regard to physical hazard classes**

#### Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

#### Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

#### Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

#### Self-heating substances and mixtures

Self heating ability: not applicable, the product is a liquid

#### Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases: Forms no flammable gases in the presence of water.

#### Corrosion to metals

No corrosive effect on metal.

### **Other safety characteristics**

pKA: 14,77 (calculated)  
(25 °C)

Adsorption/water - soil: The substance does not dissociate.  
KOC: 10; log KOC: 1 (calculated)

Surface tension:

Based on chemical structure, surface activity is not to be expected.

Molar mass: 162,23 g/mol

SAPT-Temperature:

Study scientifically not justified.

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor pressure.

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## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Formation of Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

Reacts with strong oxidizing agents. Reacts with light metals, with evolution of hydrogen.

### 10.4. Conditions to avoid

No special precautions other than good housekeeping of chemicals.

### 10.5. Incompatible materials

Substances to avoid:

strong oxidizing agents

### 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological Information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion. Of low toxicity after short-term skin contact. The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Experimental/calculated data:

LD50 mouse (oral): 2.410 mg/kg (OECD Guideline 401)

LC50 rat (by inhalation): > 29 ppm 2 h (IRT)

No mortality was observed. The vapour was tested.

LD50 rabbit (dermal): 2.764 mg/kg (OECD Guideline 402)

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#### Irritation

Assessment of irritating effects:

Eye contact causes irritation. May cause slight irritation to the skin.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation

rabbit: Irritant. (similar to OECD guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)

#### Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals.

#### Carcinogenicity

Assessment of carcinogenicity:

No data was available concerning carcinogenic activity.

#### Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

#### Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

#### Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance-specific organotoxicity was observed after repeated administration to animals.

Prolonged or repeated contact may cause mild skin irritation.

#### Aspiration hazard

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not applicable

#### Interactive effects

No data available.

## **11.2. Information on other hazards**

#### Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

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## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 1.300 mg/l, *Lepomis macrochirus* (OECD Guideline 203, static)

Literature data. Nominal concentration.

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, *Daphnia magna* (Directive 92/69/EEC, C.2, static)

Nominal concentration.

Aquatic plants:

EC50 (96 h) > 100 mg/l (growth rate), *Scenedesmus subspicatus* (OECD Guideline 201, static)

Nominal concentration.

Microorganisms/Effect on activated sludge:

EC10 (30 min) > 1.995 mg/l, activated sludge, industrial (OECD Guideline 209, aquatic)

Nominal concentration.

Chronic toxicity to fish:

No data available regarding toxicity to fish.

Chronic toxicity to aquatic invertebrates:

No data available regarding toxicity to daphnids.

Assessment of terrestrial toxicity:

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No data available concerning terrestrial toxicity.

## 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Readily biodegradable (according to OECD criteria).

Elimination information:

80 - 90 % BOD of the ThOD (28 d) (OECD 301C; ISO 9408; 92/69/EWG, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))

Assessment of stability in water:

No data available.

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

No data available.

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

## 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

## 12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

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## 12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EU) 2024/590 on substances that deplete the ozone layer.

### Results of PMT and vPvM assessment

Substance is not included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having PMT/vPvM properties.

### Additional information

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

Other ecotoxicological advice:  
Do not release untreated into natural waters.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Regulation of the Minister of the Climate of 2 January 2020 on waste catalogue (Dz.U.[Journal of Laws] of 2020, item 10 as amended). (Poland)

Act of 14 December 2012 on waste (consolidated text Dz.U.[Journal of Laws] of 2022, item 699 as amended) and Act of 13 June 2013 on the Management of Packaging and Packaging Waste (consolidated text Dz.U.[Journal of Laws] of 2023, item 160 as amended). (Poland)

The waste codes are manufacturer's recommendations based on the designated use of the product. Other use and special waste disposal treatment on customer's location may require different waste-code assignments.

Contact the manufacturer directly in case of waste disposal problems with the assigned waste-codes.

Waste key:04 02 12 Non-halogenated wastes from dressing and finishing

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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## SECTION 14: Transport Information

### Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable

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Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### Inland waterway transport

##### ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

#### Transport in inland waterway vessel

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable

#### Sea transport

##### IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for	None known

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user

### **Air transport**

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

#### **14.1. UN number or ID number**

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

#### **14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

#### **14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### **14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### **14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### **14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

#### **14.7. Maritime transport in bulk according to IMO instruments**

Regulation:	IBC-Code
Product name:	Poly(2-8)Alkylene Glykol Monoalkyl (C1-C6)ether
Pollution category:	Z
Ship Type:	3



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## SECTION 15: Regulatory Information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 55

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

Listed in above regulation: no

Classification applies for standard conditions of temperature and pressure.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Act of 25 February 2011 on chemical substances and mixtures thereof (Dz.U.[Journal of Laws] of 2022, item 1816 as amended). (Poland)

Regulation of the 26 September 1997 by the Minister of Labour and Social Policy on general occupational health and safety rules (consolidated text Dz.U.[Journal of Laws] of 2003, no. 169, item 1650 as amended). (Poland)

Regulation of the Minister of Labour and Social Policy of 12 June 2018 on maximum concentrations and intensities of health-harming agents in the working environment (Dz.U.[Journal of Laws] of 2018 item 1286 as amended). (Poland)

Act of 19 June 1997 prohibiting the use of asbestos-containing products (consolidated text Dz.U.[Journal of Laws] of 2020, item 1680 as amended). (Poland)

Montreal Protocol from September, 16th, 1987 on substances that deplete the ozone layer (Dz.U.[Journal of Laws] of 1992, no. 98, item 490 as amended) and law from May, 15th, 2015 regarding substances that deplete the ozone layer and some fluorinated greenhouse gases (consolidated text Dz.U.[Journal of Laws] of 2020, item 2065 as amended). (Poland).

### 15.2. Chemical Safety Assessment

| Chemical Safety Assessment performed

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## SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Acute Tox. 5 (oral)

Acute Tox. 5 (dermal)

Eye Irrit. 2A

Skin Irrit. 3

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Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Eye Irrit.

Eye irritation

H319

Causes serious eye irritation.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.

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## Annex: Exposure Scenarios

### Index

#### 1. Manufacture of substance, Use as a Process chemical

IS; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

#### 2. Formulation

IS; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

#### 3. Distribution of substance

IS; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

#### 4. Use in Coatings, (use in industrial settings)

IS; ERC4, ERC5; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

#### 5. Use in Coatings, (use in professional settings)

PW; ERC8a, ERC8d, ERC9a, ERC9b; PROC1, PROC2, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19

#### 6. Use in Coatings, (consumer use)

C; ERC8a, ERC8d; PC9a, PC9c, PC31

#### 7. Use in Cleaning Agents

IS; ERC4, ERC6b; PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13

#### 8. Use in Cleaning Agents, (use in professional settings)

PW; ERC8a, ERC8d; PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC19

#### 9. Use in Cleaning Agents, (consumer use)

C; ERC8a, ERC8d; PC35

#### 10. Use in Metal working fluids / rolling oils, (use in industrial settings)

IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17

#### 11. Use in Metal working fluids / rolling oils, (use in professional settings)

PW; ERC8a, ERC9a; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC19

#### 12. Mining chemicals, Mineral Ore Processing

IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9

#### 13. Use in Lubricants, (use in industrial settings)

IS; ERC4, ERC7; PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18

#### 14. Use in Lubricants, (use in professional settings)

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PW; ERC8a, ERC8d; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20

**15.**Use in Lubricants, (consumer use)

C; ERC8a, ERC8d; PC24

**16.**Use in Agrochemicals, (use in professional settings)

PW; ERC8a, ERC8d; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC9, PROC11, PROC13

**17.**Use in Agrochemicals, (consumer use)

C; ERC8a, ERC8d; PC12, PC27

**18.**Use in Functional Fluids, (use in industrial settings)

IS; ERC7; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9

**19.**Use in Functional Fluids, (use in professional settings)

PW; ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC20

**20.**Use in Functional Fluids, (consumer use)

C; ERC9a, ERC9b; PC16, PC17

**21.**Use in Water treatment chemicals, (use in industrial settings)

IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC13

**22.**Use in Water treatment chemicals, (use in professional settings)

PW; ERC8f, ERC9a; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC13

**23.**Use in Water treatment chemicals, (consumer use)

C; ERC8f; PC37

**24.**Use in laboratories, (use in industrial settings)

IS; ERC4; PROC10, PROC15

**25.**Use in laboratories, (use in professional settings)

PW; ERC8a; PROC10, PROC15

**26.**Use in cosmetics

C; ERC8a; PC28, PC39

**27.**Fire foam, (use in industrial settings)

IS; ERC4; PROC1, PROC3, PROC4, PROC7, PROC8a, PROC8b

**28.**Fire foam, Marine and Offshore, (use in professional settings)

PW; ERC8d; PROC4, PROC8a, PROC8b, PROC9, PROC11

**29.**Fire foam, Aviation, (use in professional settings)

PW; ERC8d; PROC4, PROC8a, PROC8b, PROC9, PROC11

**30.**Fire foam, (use in professional settings)

PW; ERC8d; PROC4, PROC8a, PROC9, PROC11

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**31.** Fire foam, (use in professional settings), (indoor use)

PW; ERC8a; PROC1, PROC4, PROC8a, PROC8b, PROC9, PROC11

**32.** Use in Oilfield drilling and production operations

PW; ERC8d, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b

**33.** Use as an intermediate, (use in industrial settings)

IS; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

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## 1. Short title of exposure scenario

Manufacture of substance, Use as a Process chemical

IS; ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 1.1.z.v2
Operational conditions	
Annual amount used in the EU	18.500.000 kg
Minimum emission days per year	300
Emission factor air	0,001 %
Emission factor water	0,001 %
Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	43.541 m3/min
Dilution factor river	187,66
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	335.896 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,0453
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1.361,3 t/d

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Risk from environmental exposure is driven by soil.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for

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	exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	



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<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	

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For scaling see: <http://www.ecetoc.org/tra>

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,027027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 2. Short title of exposure scenario

Formulation

IS; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 4.10a.v1: ESVOC SpERC 4.10a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	12.500.000 kg
Minimum emission days per year	300

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Emission factor air	0,25 %
Emission factor water	0,5 %
Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Filtration, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,127016
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	32.804,2 kg/d
Risk from environmental exposure is driven by soil.	
<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 2.2.v1: ESVOC SpERC 2.2.v1
<b>Operational conditions</b>	
Annual amount used in the EU	12.500.000 kg
Minimum emission days per year	300
Emission factor air	0,001 %
Emission factor water	0,001 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10

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Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	184,4 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>
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<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	

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Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %

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Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial



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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,027027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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### 3. Short title of exposure scenario

Distribution of substance

IS; ERC2, ERC3; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 1.1b.v1: ESVOC SpERC 1.1b.v1
<b>Operational conditions</b>	
Annual amount used in the EU	12.500.000 kg
Minimum emission days per year	300
Emission factor air	0,001 %
Emission factor water	0,001 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m <sup>3</sup> /d)	2.000 m <sup>3</sup> /d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,057418
Risk from environmental exposure is driven by soil.	

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Maximum amount of safe use	145,1 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 1.1b.v1: ESVOC SpERC 1.1b.v1
<b>Operational conditions</b>	
Annual amount used in the EU	12.500.000 kg
Minimum emission days per year	300
Emission factor air	0,001 %
Emission factor water	0,001 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,057418
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	145,1 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000413
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Avoid skin contact.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,016523
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,008262
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042

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### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
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### **Operational conditions**

Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

### **Risk Management Measures**

Use suitable eye protection.

### **Exposure estimate and reference to its source**

Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007

### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
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### **Operational conditions**

Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	2,91976 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,033046
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %

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Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,033046
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007



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### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
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### **Operational conditions**

Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
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Physical state	liquid
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Vapour pressure of the substance during use	2,91976 Pa
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Process temperature	20 °C
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Duration and Frequency of activity	480 min 5 days per week
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Indoor/Outdoor	Indoor
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### **Risk Management Measures**

Use suitable eye protection.	
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### **Exposure estimate and reference to its source**

Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic

Exposure estimate	0,3429 mg/kg bw/day
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Risk Characterization Ratio (RCR)	0,004131
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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic

Exposure estimate	33,7972 mg/m <sup>3</sup>
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Risk Characterization Ratio (RCR)	0,5007
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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local

Exposure estimate	33,7972 mg/m <sup>3</sup>
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Risk Characterization Ratio (RCR)	0,5007
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### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra>

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## **4. Short title of exposure scenario**

Use in Coatings, (use in industrial settings)

IS; ERC4, ERC5; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

## **Control of exposure and risk management measures**

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	CEPE SPERC 4.1b.v2
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<b>Operational conditions</b>	
Annual amount used in the EU	3.200.000 kg
Minimum emission days per year	20
Emission factor air	95 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,200299
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	79.880,7 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	CEPE SPERC 5.2a.v1: CEPE SPERC 5.2a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	3.200.000 kg
Minimum emission days per year	225
Emission factor air	2 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

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<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Air cyclones for dust collection, Filtration
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,059467
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	16.816 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or

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	processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Application rate	< 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is not carried out	

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overhead.	
Use equipment with a fixed capturing hood exhaust ventilation.	
Ensure that effective housekeeping is in place	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,148148
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week



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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,027027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 5. Short title of exposure scenario

Use in Coatings, (use in professional settings)

PW; ERC8a, ERC8d, ERC9a, ERC9b; PROC1, PROC2, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.3b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	365
Emission factor air	98 %
Emission factor water	1 %
Emission factor soil	1 %
Receive Surf. Water (Flow Rate).	18.000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100

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<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045213
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	12,1 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.3b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	365
Emission factor air	98 %
Emission factor water	1 %
Emission factor soil	1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045213
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	12,1 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC9a: Widespread use of functional fluid (indoor)
<b>Operational conditions</b>	

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Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,057417
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	9,5 kg/d
	Risk from environmental exposure is driven by soil.

<b>Contributing exposure scenario</b>	
Use descriptors covered	ERC9b: Widespread use of functional fluid (outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	

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Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,057748
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	9,5 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
<b>Operational conditions</b>	

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Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional



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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air	Effectiveness: 30 %

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changes per hour)	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC28: Manual maintenance (cleaning and repair) of machinery covered by PROC8a

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
In case no general ventilation is used:, Ensure operation is undertaken outdoors.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Application rate	< 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is not carried out overhead.	
Provide extract ventilation to points where emissions occur (LEV).	
Ensure that general housekeeping is in place	
In case no suitable local exhaust ventilation is present, Ensure operation is undertaken outdoors.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,3 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,405405
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5

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	Worker - inhalation, long-term - local
Exposure estimate	13 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,192593
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,027027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,3 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,405405
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - local
Exposure estimate	10,1392 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,15021
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 6. Short title of exposure scenario

Use in Coatings, (consumer use)

C; ERC8a, ERC8d; PC9a, PC9c, PC31

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.3c.v2
<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365
Emission factor air	98,5 %
Emission factor water	1 %
Emission factor soil	0,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045194
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.3c.v2

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<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365
Emission factor air	98,5 %
Emission factor water	1 %
Emission factor soil	0,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045194
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC9a_1, PC15_1: Subcategory: Waterborne latex wall paint
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 3 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	65 kg
Contact rate	30 mg/min
Release duration	120 min
	Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - local

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Exposure estimate	0,2571 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,571429
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC9c: Finger paints
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 5 %
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 480 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 120 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per year Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per year Relevant for dermal exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
Release area	100000 cm <sup>2</sup>
	Release area increases over time
Release duration	120 min
	Relevant for inhalative exposure estimates
Contact rate	3000 mg/min
Release duration	480 min
	Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	3,0348 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,060695
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,7852 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,019388



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	The exposure calculation is based on the mean concentration on the day of exposure.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC31: Polishes and Wax Blends.
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 5 %
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 120 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per day Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per day Relevant for dermal exposure estimates
Room size	34 m <sup>3</sup>
Ventilation rate per hour	1,5
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 90 g Relevant for inhalative exposure estimates
	Amount per use 0,9 g Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,6923 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,013846
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: evaporation model - instantaneous release
	Consumer - inhalation, long-term - systemic
Exposure estimate	3,4942 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,086275
	The exposure calculation is based on the mean concentration on the day of exposure.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

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## 7. Short title of exposure scenario

Use in Cleaning Agents

IS; ERC4, ERC6b; PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 4.6a.v1: ESVOC SpERC 4.6a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	20
Emission factor air	30 %
Emission factor water	0,01 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,053808
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	46.461,6 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 1.1b.v1: ESVOC SpERC 1.1b.v1

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<b>Operational conditions</b>	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	300
Emission factor air	0,001 %
Emission factor water	0,001 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,057417
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	5,8 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional

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	controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	

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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Application rate	> 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is not carried out overhead.	
Ensure that general housekeeping is in place	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,04 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,054054
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	16 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,237037
<b>Guidance to Downstream Users</b>	

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For scaling see: <http://www.ecetoc.org/tra> For scaling see: <http://www.advancedreachtool.com>

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker



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	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 8. Short title of exposure scenario

Use in Cleaning Agents, (use in professional settings)

PW; ERC8a, ERC8d; PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC19

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.4b.v3
<b>Operational conditions</b>	
Annual amount used in the EU	2.400.000 kg
Minimum emission days per year	365
Emission factor air	4 %
Emission factor water	1 ppm
Emission factor soil	0,2 ppm
Receive Surf. Water (Flow Rate).	18.000 m3/d

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(ID no. 30034744/SDS\_GEN\_PL/EN)

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Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	29,1 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 8.4b.v3
<b>Operational conditions</b>	
Annual amount used in the EU	2.400.000 kg
Minimum emission days per year	365
Emission factor air	4 %
Emission factor water	1 ppm
Emission factor soil	0,2 ppm
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	29,1 kg/d
Risk from environmental exposure is driven by soil.	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional

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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Application rate	< 3 l/min

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<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is not carried out overhead.	
Provide extract ventilation to points where emissions occur (LEV).	
Ensure that general housekeeping is in place	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,3 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,405405
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	13 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,192593
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day



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Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	16,9714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,204475
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	6,0835 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,090126
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	10,1392 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,15021
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 9. Short title of exposure scenario

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Use in Cleaning Agents, (consumer use)  
C; ERC8a, ERC8d; PC35

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 8.4c.v2
Operational conditions	
Annual amount used in the EU	1.600.000 kg
Minimum emission days per year	365
Emission factor air	95 %
Emission factor water	2,5 %
Emission factor soil	2,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045276
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	19,4 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 8.4c.v2
Operational conditions	
Annual amount used in the EU	1.600.000 kg
Minimum emission days per year	365
Emission factor air	95 %
Emission factor water	2,5 %

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Emission factor soil	2,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045276
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	19,4 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC8_1, PC35_1: Subcategory: Laundry and dish washing products
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 5 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	68,8 kg
	Amount per use 0,031 g Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - local
Exposure estimate	0,0007 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,001566
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC8_1, PC35_1: Subcategory: Laundry and dish washing products
<b>Operational conditions</b>	

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Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 5\%$
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	365 uses per year
body weight	68,8 kg
Uptake fraction oral	100 % Relevant for oral exposure estimates
	Relevant for oral exposure estimates
	Amount ingested 0,42 mg Relevant for oral exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Oral model: direct intake, Uptake model: Uptake fraction
	Consumer - oral, long-term - systemic
Exposure estimate	0,0003 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000049
	The calculation is based on the internal chronic dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
Use descriptors covered	PC8_2, PC35_2: Subcategory: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners )
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 5\%$
Vapour pressure of the substance during use	2,91976 Pa
body weight	68,8 kg
	Amount per use 0,286 g Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - local
Exposure estimate	0,0065 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,014444
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC8_2, PC35_2: Subcategory: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners )
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 5 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	8 kg
Contact area	22 cm <sup>2</sup> Relevant for dermal exposure estimates
	Relevant for dermal exposure estimates
Transfer coefficient	0,555556 cm <sup>2</sup> /s
Dislodgeable amount	0,0012 g/cm <sup>2</sup>
Contact time	3600 sec
Rubbed surface	22 m <sup>2</sup>
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: rubbing off
	Consumer - dermal, short-term - local
Exposure estimate	0,04 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,088889
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC8_3, PC35_3: Subcategory: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 3 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	68,8 kg
	Amount per use 0,31 g Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - local
Exposure estimate	0,0413 mg/cm <sup>2</sup> /day

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Risk Characterization Ratio (RCR)	0,091852
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC8_3, PC35_3: Subcategory: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 3 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	68,8 kg
Contact rate	46 mg/min
Release duration	0,46 min
	Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - local
Exposure estimate	0,0003 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,000641
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

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## 10. Short title of exposure scenario

Use in Metal working fluids / rolling oils, (use in industrial settings)

IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 4.9.v1: ESVOC SpERC 4.9.v1
<b>Operational conditions</b>	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	20
Emission factor air	2 %

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Emission factor water	0,1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Filtration, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,05533
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	45.183,7 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000413
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional



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	controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	

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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
Use descriptors covered	PROC28: Manual maintenance (cleaning and repair) of machinery covered by PROC8a

<b>Contributing exposure scenario</b>	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Application rate	< 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is not carried out overhead.	
Use equipment with a fixed capturing hood exhaust ventilation.	
Ensure that effective housekeeping is in place	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,148148
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities

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	Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC17: Lubrication at high energy conditions in metal working operations Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	40,5567 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,60084
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 11. Short title of exposure scenario

Use in Metal working fluids / rolling oils, (use in professional settings)

PW; ERC8a, ERC9a; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC19

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.7c.v1: ESVOC SpERC 8.7c.v1
<b>Operational conditions</b>	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	365
Emission factor air	0,5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

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<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045205
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,5 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC9a: Widespread use of functional fluid (indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,057417
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	4,8 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.



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	Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local

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Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC28: Manual maintenance (cleaning and repair) of machinery covered by PROC8a

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and

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	discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.

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<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47,3161 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,70098
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
In case no suitable local exhaust ventilation is present:, Reduce concentration to less than 25%	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional

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	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Application rate	$< 3$ l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is not carried out overhead.	
Provide extract ventilation to points where emissions occur (LEV).	
Ensure that general housekeeping is in place	
In case no suitable local exhaust ventilation is present:, Wear a half face respirator conforming to EN140 Type A filter or better.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,3 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,405405
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	13 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,192593
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$

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Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC17: Lubrication at high energy conditions in metal working operations Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 80 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Provide a good standard of general ventilation (not less than 3 - 5 air	Effectiveness: 30 %

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changes per hour)	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,3 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,405405
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	10,1392 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,15021
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 12. Short title of exposure scenario

Mining chemicals, Mineral Ore Processing

IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
Operational conditions	
Annual amount used in the EU	200.000 kg
Minimum emission days per year	300
Emission factor air	100 %
Emission factor water	50 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Treat soil emissions to provide a typical removal efficiency of (%)	99,9 %
Soil treatment measures considered suitable are, e.g.	Sewage Sludge incineration
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,07323
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	455,2 kg/d
Risk from environmental exposure is driven by marine sediment.	
Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day

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Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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### 13. Short title of exposure scenario

Use in Lubricants, (use in industrial settings)

IS; ERC4, ERC7; PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC18

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 4.6a.y.v2
<b>Operational conditions</b>	
Annual amount used in the EU	200.000 kg
Minimum emission days per year	20
Emission factor air	0,01 %
Emission factor water	0,1 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d

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Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,049044
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	20.389,9 kg/d
	Risk from environmental exposure is driven by soil.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 4.6a.y.v2
<b>Operational conditions</b>	
Annual amount used in the EU	200.000 kg
Minimum emission days per year	20
Emission factor air	0,01 %
Emission factor water	0,1 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,049044
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	20.389,9 kg/d
	Risk from environmental exposure is driven by soil.

<b>Contributing exposure scenario</b>
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<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	



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Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,016523
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.

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	Any sized room
Application rate	< 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is not carried out overhead.	
Use equipment with a fixed capturing hood exhaust ventilation.	
Ensure that effective housekeeping is in place	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	10 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,148148
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	

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Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC17: Lubrication at high energy conditions in metal working operations Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	40,5567 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,60084
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC18: General greasing /lubrication at high kinetic energy conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	40,5567 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,60084
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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#### 14. Short title of exposure scenario

Use in Lubricants, (use in professional settings)

PW; ERC8a, ERC8d; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20

#### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.6c.v1: ESVOC SpERC 8.6c.v1
<b>Operational conditions</b>	
Annual amount used in the EU	200.000 kg
Minimum emission days per year	365
Emission factor air	0,5 %
Emission factor water	5 %
Emission factor soil	5 %



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Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045202
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.6c.v1: ESVOC SpERC 8.6c.v1
<b>Operational conditions</b>	
Annual amount used in the EU	200.000 kg
Minimum emission days per year	365
Emission factor air	0,5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045202
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

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(ID no. 30034744/SDS\_GEN\_PL/EN)

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day

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Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
In case no suitable local exhaust ventilation is present:, Reduce concentration to less than 25%	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional

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	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Application rate	$< 3$ l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is not carried out overhead.	
Provide extract ventilation to points where emissions occur (LEV).	
Ensure that general housekeeping is in place	
In case no suitable local exhaust ventilation is present:, Wear a half face respirator conforming to EN140 Type A filter or better.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,3 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,405405
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	13 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,192593
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$

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Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC17: Lubrication at high energy conditions in metal working operations Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 80 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Provide a good standard of general ventilation (not less than 3 - 5 air	Effectiveness: 30 %



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changes per hour)	
Restrict area of openings to equipment.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC18: General greasing /lubrication at high kinetic energy conditions Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 80 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Restrict area of openings to equipment.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local

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Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC20: Use of functional fluids in small devices Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,25 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,337838
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 15. Short title of exposure scenario

Use in Lubricants, (consumer use)

C; ERC8a, ERC8d; PC24

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.6e.v1: ESVOC SpERC 8.6e.v1
<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg

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Minimum emission days per year	365
Emission factor air	0,5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045194
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,303104 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 8.6e.v1: ESVOC SpERC 8.6e.v1
<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	0,5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d

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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045194
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,303104 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC13_1, PC24_1: Subcategory: Liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 10 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	65 kg
	Amount per use 0,25 g Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - local
Exposure estimate	0,2315 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,514403
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC24_2: Subcategory: Pastes
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 10 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	65 kg
	Amount per use 0,05 g Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - local

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Exposure estimate	0,2273 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,505051
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC24_3: Subcategory: Sprays
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 3 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	65 kg
Contact rate	100 mg/min
Release duration	2,25 min
	Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - local
Exposure estimate	0,0078 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,017442
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp</a>	

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## 16. Short title of exposure scenario

Use in Agrochemicals, (use in professional settings)

PW; ERC8a, ERC8d; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC9, PROC11, PROC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.11a.v2
<b>Operational conditions</b>	
Annual amount used in the EU	150.000 kg
Minimum emission days per year	365
Emission factor air	90 %

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Emission factor water	1 %
Emission factor soil	9 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045195
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,8 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 8.11a.v2
<b>Operational conditions</b>	
Annual amount used in the EU	150.000 kg
Minimum emission days per year	365
Emission factor air	90 %
Emission factor water	1 %
Emission factor soil	9 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045195
	Risk from environmental exposure is driven by soil.

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Maximum amount of safe use	1,8 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>



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Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	outdoor, away from buildings
	Assumes activities are at ambient temperature.
Application rate	> 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is carried out only downward.	
Ensure that general housekeeping is in place	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,5 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,675676
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	19 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,281481
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 17. Short title of exposure scenario

Use in Agrochemicals, (consumer use)  
C; ERC8a, ERC8d; PC12, PC27

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.11b.v2

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<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	90 %
Emission factor water	1 %
Emission factor soil	9 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045193
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,606229 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 8.11b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	90 %
Emission factor water	1 %
Emission factor soil	9 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

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<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045193
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,606229 kg/d
	Risk from environmental exposure is driven by soil.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC12: Fertilizers.
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 3 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	65 kg
Contact rate	4,98 mg/min
Release duration	5 min
	Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - local
Exposure estimate	0,0003 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,000755
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC27: Plant Protection products.
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 3 %
Vapour pressure of the substance during use	2,91976 Pa
body weight	65 kg
Contact rate	46 mg/min

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Release duration	10 min
	Relevant for dermal exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - local
Exposure estimate	0,0046 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,010222
	The calculation is based on the external dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

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## 18. Short title of exposure scenario

Use in Functional Fluids, (use in industrial settings)

IS; ERC7; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 7.13a.y.v2
<b>Operational conditions</b>	
Annual amount used in the EU	200.000 kg
Minimum emission days per year	20
Emission factor air	0,01 %
Emission factor water	0,1 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,049044
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	20.389,9

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	kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Use suitable eye protection.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
Guidance to Downstream Users	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week



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Product: **BUTYLDIGLYCOL**

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 19. Short title of exposure scenario

Use in Functional Fluids, (use in professional settings)

PW; ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC20

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 9.13b.v2
Operational conditions	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045202
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 9.13b.v2
Operational conditions	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365

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Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045202
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm²/day
Risk Characterization Ratio (RCR)	0,013514

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC28: Manual maintenance (cleaning and repair) of machinery covered by PROC8a

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>
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<b>Use descriptors covered</b>	PROC20: Use of functional fluids in small devices Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,25 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,337838
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 20. Short title of exposure scenario

Use in Functional Fluids, (consumer use)

C; ERC9a, ERC9b; PC16, PC17

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 9.13c.v2
<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	5 %

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Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045197
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,606172 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 9.13c.v2
<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045197
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,606172 kg/d

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Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PC17: Hydraulic Fluids.
Operational conditions	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 50\%$
Vapour pressure of the substance during use	2,91976 Pa
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - local
Exposure estimate	0,0058 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,01292
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

Contributing exposure scenario	
Use descriptors covered	PC16: Heat Transfer Fluids.
Operational conditions	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 50\%$
Vapour pressure of the substance during use	2,91976 Pa
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - local
Exposure estimate	0,0058 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,01292
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

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## 21. Short title of exposure scenario

Use in Water treatment chemicals, (use in industrial settings)

IS; ERC4; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 4.19.v1: ESVOC SpERC 4.19.v1
<b>Operational conditions</b>	
Annual amount used in the EU	200.000 kg
Minimum emission days per year	300
Emission factor air	5 %
Emission factor water	95 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Waste gas treatment by thermal oxidation
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,289601
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	230,2 kg/d
Risk from environmental exposure is driven by soil.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

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	containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,008262
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for

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	exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air	Effectiveness: 30 %

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changes per hour)	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>
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<b>Use descriptors covered</b>	PROC28: Manual maintenance (cleaning and repair) of machinery covered by PROC8a
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 22. Short title of exposure scenario

Use in Water treatment chemicals, (use in professional settings)

PW; ERC8f, ERC9a; PROC1, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>
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<b>Use descriptors covered</b>	ESVOC SpERC 8.22b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365
Emission factor air	1 %
Emission factor water	99 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045401
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC9a: Widespread use of functional fluid (indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10

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Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,057417
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,954326 kg/d
	Risk from environmental exposure is driven by soil.

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent

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	containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant	Effectiveness: 80 %

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gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local

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Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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### 23. Short title of exposure scenario

Use in Water treatment chemicals, (consumer use)  
C; ERC8f; PC37

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.22c.v2
<b>Operational conditions</b>	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	1 %
Emission factor water	99 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m <sup>3</sup> /d)	2.000 m <sup>3</sup> /d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045296
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,604845 kg/d
Risk from environmental exposure is driven by soil.	



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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC37: Water treatment chemicals.
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 2\%$
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	4 uses per year
body weight	65 kg
Uptake fraction oral	100 % Relevant for oral exposure estimates
	Relevant for oral exposure estimates
	Amount ingested 1.000 g Relevant for oral exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ConsExpo v4.1, Oral model: direct intake, Uptake model: Uptake fraction
	Consumer - oral, long-term - systemic
Exposure estimate	3,372 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,539515
	The calculation is based on the internal chronic dose.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

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## 24. Short title of exposure scenario

Use in laboratories, (use in industrial settings)

IS; ERC4; PROC10, PROC15

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 1.1.v1: ESVOC SpERC 1.1.v1
<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	20
Emission factor air	2,5 %
Emission factor water	2 %

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Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,052919
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1.889,7 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,027027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 25. Short title of exposure scenario

Use in laboratories, (use in professional settings)

PW; ERC8a; PROC10, PROC15

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.17.v2

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<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365
Emission factor air	50 %
Emission factor water	50 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045297
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant	Effectiveness: 80 %

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gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,027027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 26. Short title of exposure scenario

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Use in cosmetics  
C; ERC8a; PC28, PC39

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 8.17.v1: ESVOC SpERC 8.17.v1
Operational conditions	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	95 %
Emission factor water	2,5 %
Emission factor soil	2,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045193
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	0,151559 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PC28: Perfumes, Fragrances. In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed for end uses in cosmetic products within the scope of Directive EC 1223/2009.
Operational conditions	
Vapour pressure of the substance during use	2,91976 Pa

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC39: Cosmetics, personal care products. In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed for end uses in cosmetic products within the scope of Directive EC 1223/2009.
<b>Operational conditions</b>	
Vapour pressure of the substance during use	2,91976 Pa

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## 27. Short title of exposure scenario

Fire foam, (use in industrial settings)

IS; ERC4; PROC1, PROC3, PROC4, PROC7, PROC8a, PROC8b

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 6.1a.v1: ESVOC SpERC 6.1a.v1
<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	300
Emission factor air	0,5 %
Emission factor water	9 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Waste gas treatment by thermal oxidation
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment

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Risk Characterization Ratio (RCR)	0,160411
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	207,8 kg/d
Risk from environmental exposure is driven by marine sediment.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	2,91976 Pa



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during use	
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 1 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
	Any sized room
Application rate	> 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that effective housekeeping is in place	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,027027
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	7,1 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,105185
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 28. Short title of exposure scenario

Fire foam, Marine and Offshore, (use in professional settings)

PW; ERC8d; PROC4, PROC8a, PROC8b, PROC9, PROC11

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	400.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	4,8 kg/d

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Risk from environmental exposure is driven by soil.

#### Contributing exposure scenario

<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
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#### Operational conditions

Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.

#### Risk Management Measures

Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	

#### Exposure estimate and reference to its source

Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098

#### Guidance to Downstream Users

For scaling see: <http://www.ecetoc.org/tra>

#### Contributing exposure scenario

<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
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#### Operational conditions

Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance	2,91976 Pa

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during use	
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC19: Manual activities involving hand contact Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,3 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,405405
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	10,1392 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,15021
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
	Surface spraying of liquids

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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 1 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Application rate	> 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,05 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,067568
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	7,2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,106667
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

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## 29. Short title of exposure scenario

Fire foam, Aviation, (use in professional settings)

PW; ERC8d; PROC4, PROC8a, PROC8b, PROC9, PROC11

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365
Emission factor air	100 %



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Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
	Surface spraying of liquids
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 1 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Application rate	> 3 l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,05 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,067568
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	7,2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,106667
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

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### 30. Short title of exposure scenario

Fire foam, (use in professional settings)

PW; ERC8d; PROC4, PROC8a, PROC9, PROC11

### Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Operational conditions	
Annual amount used in the EU	150.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	no STP
Exposure estimate and reference to its source	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,8 kg/d
Risk from environmental exposure is driven by soil.	
Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: professional
Operational conditions	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	

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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
	Surface spraying of liquids

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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 1\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Application rate	$> 3$ l/min
<b>Risk Management Measures</b>	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,05 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,067568
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	7,2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,106667
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a> For scaling see: <a href="http://www.advancedreachtool.com">http://www.advancedreachtool.com</a>	

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### 31. Short title of exposure scenario

Fire foam, (use in professional settings), (indoor use)

PW; ERC8a; PROC1, PROC4, PROC8a, PROC8b, PROC9, PROC11

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
<b>Operational conditions</b>	
Annual amount used in the EU	100.000 kg
Minimum emission days per year	365
Emission factor air	100 %



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Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1,2 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001

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### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: professional
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### **Operational conditions**

Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.

### **Risk Management Measures**

Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	

### **Exposure estimate and reference to its source**

Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,4 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,540541
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098

### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
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### **Operational conditions**

Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,033046
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098

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### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra>

### **Contributing exposure scenario**

<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
	Surface spraying of liquids

### **Operational conditions**

Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 1 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Application rate	> 3 l/min

### **Risk Management Measures**

Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Use suitable eye protection.	

### **Exposure estimate and reference to its source**

Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,05 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,067568
Assessment method	EASY TRA v5.2, Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	7,2 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,106667

### **Guidance to Downstream Users**

For scaling see: <http://www.ecetoc.org/tra> For scaling see: <http://www.advancedreachtool.com>

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## **32. Short title of exposure scenario**

Use in Oilfield drilling and production operations

PW; ERC8d, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b

## **Control of exposure and risk management measures**

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid

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	(no inclusion into or onto article, outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	200.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	2,4 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC9b: Widespread use of functional fluid (outdoor)
<b>Operational conditions</b>	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

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<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045192
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	60,6 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional

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<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day



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Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	

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Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	50,6958 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,75105
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %

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Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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### 33. Short title of exposure scenario

Use as an intermediate, (use in industrial settings)

IS; ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 6.1a.y.v2
<b>Operational conditions</b>	
Annual amount used in the EU	3.000.000 kg
Minimum emission days per year	100
Emission factor air	0,001 %
Emission factor water	1 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	43.541 m3/min
Dilution factor river	187,66
Dilution factor coast	100
<b>Risk Management Measures</b>	
Soil treatment measures considered suitable are, e.g.	No application of sludge to soil
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	335.896 m3/d
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,045207
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	663.611,4 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,01 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,013514
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0676 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,001001
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %

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Product: **BUTYLDIGLYCOL**

(ID no. 30034744/SDS\_GEN\_PL/EN)

Date of print 28.10.2025

Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,7594 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,10014
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	20,2783 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,30042
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	47,3161 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,70098
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,2 mg/cm <sup>2</sup> /day

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Risk Characterization Ratio (RCR)	0,27027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
<b>Risk Management Measures</b>	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	6,8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082616
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-(2-butoxyethoxy)ethanol



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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	2,91976 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - local
Exposure estimate	0,02 mg/cm <sup>2</sup> /day
Risk Characterization Ratio (RCR)	0,027027
Assessment method	EASY TRA v5.2, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	33,7972 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,5007
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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