

Safety data sheet

Page: 1/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0 Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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

1.1. Product identifier

BUTYL TRIGLYCOL

Chemical name: Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

REACH registration number: 01-2119531322-53-0000

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

Relevant identified uses: Chemical

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 plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

1.4. Emergency telephone number

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

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Eye Dam./Irrit. 1 H318 Causes serious eye damage.

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

Eye Dam./Irrit. 1: >= 30 % Eye Dam./Irrit. 2: 20 - < 30 %

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 GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318 Causes serious eye damage.

Precautionary Statements (Prevention):

P280 Wear eye and face protection.

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.

P310 Immediately call a POISON CENTER or physician.

Labeling of special preparations (GHS):

EUH066: Repeated exposure may cause skin dryness or cracking.

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

2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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.

time to time.

Date / Revised: 02.02.2024 Version: 12.0 Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol

Hazardous ingredients (GHS)

2-[2-(2-butoxyethoxy)ethoxy]ethanol

Content (W/W): >= 61 % - <= 80 % Eye Dam./Irrit. 1

CAS Number: 143-22-6 H318

EC-Number: 205-592-6

INDEX-Number: 603-183-00-0 Specific concentration limit:

Eye Dam./Irrit. 2: 20 - < 30 % Eye Dam./Irrit. 1: >= 30 %

3,6,9,12-Tetraoxahexadecan-1-ol

Content (W/W): >= 15 % - <= 33 % Eye Dam./Irrit. 2 CAS Number: 1559-34-8 H319

EC-Number: 216-322-1

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.

Keep patient calm, remove to fresh air. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Immediately 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., (Further) symptoms and / or effects are not known so far

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.

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.

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

SECTION 6: Accidental Release Measures

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

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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.

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.

Protection against fire and explosion:

No special precautions necessary. Substance/product is non-flammable.

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)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

PNEC

freshwater: 1.5 mg/l

marine water: 0.15 mg/l

intermittent release: 5 mg/l

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

STP: 200 mg/l

sediment (freshwater): 5.77 mg/kg

sediment (marine water): 0.13 mg/kg

soil: 0.45 mg/kg

oral (secondary poisoning): 111 mg/kg

DNEL

worker:

Long-term exposure- systemic effects, dermal: 208 mg/kg

worker:

Long-term exposure- systemic effects, Inhalation: 195 mg/m3, 23 ppm

consumer:

Long-term exposure- systemic effects, dermal: 125 mg/kg

consumer:

Long-term exposure- systemic effects, Inhalation: 117 mg/m3

consumer:

Long-term exposure- systemic effects, oral: 12.5 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)

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:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

(DIN 53171)

(derived from flash point)

Date of print 16.10.2025

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

Form: liquid
Colour: colourless
Odour: almost odourless

Odour threshold:

not determined

pH value:

(20 °C)

neutral

Melting temperature: approx. -45 °C Boiling range: 265 - 350 °C

265 - 350 °C (1,013 mbar)

Flash point: 131 °C (ISO 2719, closed cup)

The product has not been tested. The statement has been derived from the properties of the individual

the properties of the i

Evaporation rate:

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

pressure.

Flammability: hardly combustible

Lower explosion limit:

For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15

°C below the flash point.

Upper explosion limit:

For liquids not relevant for classification and labelling.

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Ignition temperature: 202 °C (DIN 51794)

The product has not been tested. The statement has been derived from

the properties of the individual

components.

Vapour pressure: 0.002 mbar (measured)

(20 °C)

0.02 mbar (measured)

(50 °C)

Density: 0.9917 g/cm3 (ISO 2811-3)

(20 °C)

Relative density: 0.9917

(20 °C)

Relative vapour density (air):> 1 (estimated)

(20 °C)

Heavier than air.

Solubility in water: The product has not been tested.

The statement has been derived from

the properties of the individual components., Literature data.

989 g/l (20 °C)

Solubility (qualitative) solvent(s): organic solvents

soluble

Partitioning coefficient n-octanol/water (log Kow): 0.51 (OECD Guideline 107)

(25 °C; pH value: 7)

The statements are based on the properties of the individual

components.

Self ignition: Based on its structural properties the

product is not classified as self-

igniting.

Test type: Spontaneous self-

ignition at room-temperature.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic: 10.6 mPa.s

(20 °C) 9.1 mPa.s (25 °C)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition., Literature

data. 5.58 mPa.s (40 °C)

Explosion hazard: Based on the chemical structure

there is no indication of explosive

properties.

Fire promoting properties: Based on its structural properties

the product is not classified as

oxidizing.

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

9.2. Other information

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

Miscibility with water:

(20 °C) miscible

pKA:

The substance does not dissociate.

Surface tension: 61.2 - 61.5 mN/m (OECD Guideline 115)

(20 °C; 1 g/l)

Grain size distribution: The substance / product is marketed or used in a non solid or

granular form.

SECTION 10: Stability and Reactivity

10.1. Reactivity

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

Corrosion to metals: Corrosive effects to metal are not anticipated.

Formation of Remarks: Forms no flammable gases in the

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

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.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Assessment of acute toxicity:

In animal studies the substance is virtually nontoxic after a 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 rat (oral): > 5,170 mg/kg (BASF-Test)

The product has not been tested. The statement has been derived from the properties of the individual components.

LC0 rat (by inhalation): 3.46 mg/l 8 h (IRT)

No mortality was observed. The product has not been tested. The statement has been derived from the properties of the individual components. The vapour was tested.

LD50 rabbit (dermal): 3,540 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation

Assessment of irritating effects:

Not irritating to the skin. May cause severe damage to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (BASF-Test)

The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation

rabbit: irreversible damage (OECD Guideline 405)

The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect.

Experimental/calculated data:

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

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The product has not been tested. The statement has been derived from the properties of the individual components.

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Date / Previous version: 07.11.2022 Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Carcinogenicity

Assessment of carcinogenicity:

No data available.

Reproductive toxicity

Assessment of reproduction toxicity:

Animal studies gave no indication of a fertility impairing effect at doses which were not toxic to the parental animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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:

Repeated oral exposure to large quantities may affect certain organs. Repeated dermal uptake of the substance did not cause substance-related effects. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Aspiration hazard

No aspiration hazard expected.

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) 2,200 - 4,600 mg/l, Leuciscus idus (DIN 38412 Part 15, static)

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Date / Previous version: 07.11.2022 Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates:

EC50 (48 h) > 500 mg/l, Daphnia magna (Directive 92/69/EEC, C.2, static)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from the properties of the individual components.

Aquatic plants:

EC10 (72 h) 612.6 mg/l (growth rate), Desmodesmus subspicatus (DIN 38412 Part 8, static) The details of the toxic effect relate to the nominal concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

Microorganisms/Effect on activated sludge:

EC10 (30 min) > 1,995 mg/l, activated sludge, industrial (OECD Guideline 209, aquatic)

The details of the toxic effect relate to the nominal concentration. The product has not been tested.

The statement has been derived from the properties of the individual components.

Chronic toxicity to fish:

Study does not need to be conducted.

Chronic toxicity to aquatic invertebrates:

Study does not need to be conducted.

Assessment of terrestrial toxicity:

No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria).

Elimination information:

85 % BOD of the ThOD (28 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, other bacteria)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

76 % BOD of the ThOD (28 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, predominantly domestic sewage, non-adapted)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

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:

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: No data available.

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. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

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

SECTION 14: Transport Information

Land transport

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

ADR

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

RID

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

Environmental hazards: Not applicable Special precautions for None known

user

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user:

Transport in inland waterway vessel

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Not applicable
Not applicable
Not applicable

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

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

Maritime transport in bulk is not intended.

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): Listed in above regulation: no

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

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

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

Eye Dam./Irrit. 1 Acute Tox. 5 (dermal)

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Eye Dam./Irrit. Serious eye damage/eye irritation
H318 Causes serious eye damage.
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 = Internediate 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

Page: 17/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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.

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

Page: 18/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Date / Previous version: 07.11.2022 Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Annex: Exposure Scenarios

Index

1. Manufacture of substance, (use in industrial settings) SU8; ERC1; PROC1, PROC2, PROC8a, PROC8b, PROC9, PROC15

2. Use in/as Formulation, (use in industrial settings) SU10; ERC2; PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

3. Use in Hydraulic fluids, (use in industrial settings) ERC7; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC17

4. Use in Coatings, (use in industrial settings) ERC4, ERC5; PROC1, PROC2, PROC3, PROC4, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

5. Use as processing aid, (use in industrial settings) ERC4; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

6. Use in Hydraulic fluids, (use in professional settings) ERC9a. ERC9b: PROC1. PROC2. PROC3. PROC4. PROC9. PROC17. PROC19. PROC20.

7. Use in Coatings, (use in professional settings) ERC8a, ERC8b, ERC8d, ERC8f; PROC1, PROC2, PROC3, PROC4, PROC6, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19

8. Use in Cleaning Agents, (use in professional settings) ERC8a, ERC8d; PROC2, PROC3, PROC4, PROC8b, PROC9, PROC10, PROC11, PROC13

9. Use in Hydraulic fluids, (consumer use) ERC9a, ERC9b; PC17

10.Use in Coatings, (consumer use) ERC8a, ERC8b, ERC8d, ERC8f; PC1, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC26, PC31, PC39

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

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1. Short title of exposure scenario

Manufacture of substance, (use in industrial settings) SU8; ERC1; PROC1, PROC2, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC1: Manufacture of the substance
	As no environmental hazard was identified no

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

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	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	
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)	0.000686
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.095 mg/m³
Risk Characterization Ratio (RCR)	0.000487
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	fra

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	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Vapour pressure of the substance during use	0.014 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	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.027429
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	9.5 mg/m ³
Risk Characterization Ratio (RCR)	0.048718
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	o its source
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m ³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	'tra

Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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	o 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)	0.137143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m ³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	g/tra

Contributing exposure scenario	
-	PROC15: Use a laboratory reagent.
Use descriptors covered	Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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 it	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
Risk Characterization Ratio (RCR)	0.006857
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

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Page: 23/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

2. Short title of exposure scenario

Use in/as Formulation, (use in industrial settings) SU10; ERC2; PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario		
Use descriptors covered	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	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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		
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)	0.013714	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	28.5 mg/m³	
Risk Characterization Ratio (RCR)	0.146154	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	Use domain: industrial
Operational conditions	<u> </u>
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	3,6,9,12-tetraoxahexadecan-1-ol		
	Content: >= 0 % - <= 100 %		
Physical state	liquid		
Vapour pressure of the substance during use	0.014 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)	0.137143		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	47.5 mg/m³		
Risk Characterization Ratio (RCR)	0.24359		
Guidance to Downstream Users			

Contributing exposure scenario		
Use descriptors covered	PROC14: Tabletting, compression, extrusion, pelletisation, granulation Use domain: industrial	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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	3.4286 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.068571	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
-	PROC15: Use a laboratory reagent.	
Use descriptors covered	Use domain: industrial	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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	0.3429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.006857	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	47.5 mg/m³	
Risk Characterization Ratio (RCR)	0.24359	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
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 v4.1, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	14.1429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.282857	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	95 mg/m³	
Risk Characterization Ratio (RCR)	0.487179	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org	/tra	

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3. Short title of exposure scenario

Use in Hydraulic fluids, (use in industrial settings) ERC7; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC17

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC7: Use of functional fluid at industrial site As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

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	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Vapour pressure of the substance during use	0.014 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	0.0343 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000686	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	0.095 mg/m³	
Risk Characterization Ratio (RCR)	0.000487	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

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	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	
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)	0.027429
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	9.5 mg/m ³

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Risk Characterization Ratio (RCR)	0.048718
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.or	rg/tra

Contributing exposure scenario		
Use descriptors covered	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	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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		
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)	0.013714	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	28.5 mg/m³	
Risk Characterization Ratio (RCR)	0.146154	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.014 Pa

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

during use		
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)	0.137143	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	47.5 mg/m ³	
Risk Characterization Ratio (RCR)	0.24359	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.274286	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	95 mg/m³	
Risk Characterization Ratio (RCR)	0.487179	
Guidance to Downstream Users		

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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)	0.137143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m ³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions in metal working operations Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	27.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.548571
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	57 mg/m³
Risk Characterization Ratio (RCR)	0.292308
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

4. Short title of exposure scenario

Use in Coatings, (use in industrial settings) ERC4, ERC5; PROC1, PROC2, PROC3, PROC4, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

Control of exposure and risk management measures

(no inclusion into or onto article) As no environmental hazard was identified no	Contributing exposure scenario	
	Use descriptors covered	As no environmental hazard was identified no environmental-related exposure assessment and risk

Contributing exposure scenario	
Use descriptors covered	ERC5: Use at industrial site leading to inclusion into/onto article As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

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	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	o its source

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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)	0.000686
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.095 mg/m³
Risk Characterization Ratio (RCR)	0.000487
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	
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)	0.027429
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	9.5 mg/m³
Risk Characterization Ratio (RCR)	0.048718
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	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

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	0.6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.013714
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	28.5 mg/m³
Risk Characterization Ratio (RCR)	0.146154
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	Worker - dermal, long-term - systemic
Exposure estimate	6.8571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.137143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m ³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
-	PROC6: Calendering operations
Use descriptors covered	Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol
Concentration of the Substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	27.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.548571
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m ³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Physical state	liquid
Vapour pressure of the substance	0.014 Pa
during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Room size	100 m3
Application rate	10 l/min
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m). Ensure that the task is not carried out overhead. Ensure that the direction of airflow is clearly away from the worker. Regular inspection and maintenance of equipment and machines. Clean equipment and the work area every day.	
Use suitable eye protection.	<u></u>
Assessment method	RISKOFDERM v2.1
Assessment method	Worker - dermal, long-term - systemic
Exposure estimate	22.02 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.4404
Assessment method	Stoffenmanager v5.6
Assessmentinethou	Worker - inhalation, long-term - systemic
Exposure estimate	14.81 mg/m ³
Risk Characterization Ratio (RCR)	0.075949
Guidance to Downstream Users	1 0.07 00 10
For scaling see: https://www.stoffenmanager.nl/default.aspx For scaling see: http://www.tno.nl and	
search for "riskofderm".	agoning occurrence www.tho.in and

Contributing exposure scenario		
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance	0.014 Pa	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

during use		
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	13.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.274286	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	95 mg/m ³	
Risk Characterization Ratio (RCR)	0.487179	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.274286	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	47.5 mg/m ³	
Risk Characterization Ratio (RCR)	0.24359	
Guidance to Downstream Users		

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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)	0.137143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general	
ventilation (not less than 3 - 5 air	Effectiveness: 30 %
changes per hour)	
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	27.4286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.548571
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	66.5 mg/m³
Risk Characterization Ratio (RCR)	0.341026
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	13.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.274286	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	95 mg/m³	
Risk Characterization Ratio (RCR)	0.487179	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario

Page: 42/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

	PROC15: Use a laboratory reagent.		
Use descriptors covered	Use domain: industrial		
Operational conditions			
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %		
Physical state	liquid		
Vapour pressure of the substance during use	0.014 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	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		
Risk Characterization Ratio (RCR)	0.006857		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	47.5 mg/m ³		
Risk Characterization Ratio (RCR)	0.24359		
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org	ı/tra		

5. Short title of exposure scenario

Use as processing aid, (use in industrial settings)

ERC4; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

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) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	containment conditions.
	Use domain: industrial
Operational conditions	
	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and
Concentration of the substance	3,6,9,12-tetraoxahexadecan-1-ol
Concentration of the substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.014 Pa
during use	
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	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000686
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.095 mg/m³
Risk Characterization Ratio (RCR)	0.000487
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

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	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.027429
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	9.5 mg/m³
Risk Characterization Ratio (RCR)	0.048718
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
Use descriptors covered	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	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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		
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)	0.013714	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	28.5 mg/m³	
Risk Characterization Ratio (RCR)	0.146154	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors severed	PROC4: Chemical production where opportunity for
Use descriptors covered	exposure arises

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	Use domain: industrial
Operational conditions	1
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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)	0.137143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	1
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	3,6,9,12-tetraoxahexadecan-1-ol	
	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance	0.014 Pa	
during use		
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)	0.137143	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	47.5 mg/m³	
Risk Characterization Ratio (RCR)	0.24359	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.006857
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m ³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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6. Short title of exposure scenario

Use in Hydraulic fluids, (use in professional settings) ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC9, PROC17, PROC19, PROC20

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC9a: Widespread use of functional fluid (indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	ERC9b: Widespread use of functional fluid (outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	•

Contributing exposure scenario	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: professional	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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	0.0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.000686
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.095 mg/m³
Risk Characterization Ratio (RCR)	0.000487
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

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: professional	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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	1.3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.027429	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	47.5 mg/m ³	
Risk Characterization Ratio (RCR)	0.24359	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org	/tra	

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

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	containment condition		
	Use domain: professional		
Operational conditions			
Operational conditions	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and		
	3,6,9,12-tetraoxahexadecan-1-ol		
Concentration of the substance	Content: >= 0 % - <= 100 %		
Physical state	liquid		
Vapour pressure of the substance	0.014 Pa		
during use			
Process temperature	20 °C		
	400 0' 5 1 2 2 2 2 2		
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	0.6857 mg/kg bw/day		
Risk Characterization Ratio (RCR)	0.013714		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker		
	Worker - inhalation, long-term - systemic		
Exposure estimate	28.5 mg/m³		
Risk Characterization Ratio (RCR)	0.146154		
Guidance to Downstream Users			
For scaling see: http://www.ecetoc.org/	tra		

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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.	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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)	0.137143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %	
Use suitable eye protection.		
Exposure estimate and reference to		
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)	0.137143	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
E	Worker - inhalation, long-term - systemic	
Exposure estimate	66.5 mg/m³	
Risk Characterization Ratio (RCR)	0.341026	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario	
Use descriptors covered	PROC17: Lubrication at high energy conditions in metal working operations

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
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.	
Exposure estimate and reference to	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	5.4857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.109714
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	142.5 mg/m³
Risk Characterization Ratio (RCR)	0.730769
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Indoor/Outdoor	Indoor	
Risk Management Measures		
Provide a good standard of general or		
controlled ventilation (5 to 10 air	Effectiveness: 70 %	
changes per hour)		
Wear chemically resistant gloves in		
combination with 'basic' employee	Effectiveness: 90 %	
training.		
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	14.1429 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.282857	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	71.25 mg/m ³	
Risk Characterization Ratio (RCR)	0.365385	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/tra		

Contributing exposure scenario		
Use descriptors covered	PROC20: Use of functional fluids in small devices Use domain: professional	
Operational conditions	•	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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	1.7143 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.034286	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	47.5 mg/m³	
Risk Characterization Ratio (RCR)	0.24359	
Guidance to Downstream Users		

Page: 54/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Date / Previous version: 07.11.2022 Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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

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7. Short title of exposure scenario

Use in Coatings, (use in professional settings)
ERC8a, ERC8b, ERC8d, ERC8f; PROC1, PROC2, PROC3, PROC4, PROC6, PROC9, PROC10,
PROC11, PROC13, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	•

Contributing exposure scenario	
Use descriptors covered	ERC8b: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	ERC8f: Widespread use leading to inclusion into/onto article (outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

	containment conditions.
	Use domain: professional
Operational conditions	
	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and
Concentration of the substance	3,6,9,12-tetraoxahexadecan-1-ol
Consentiation of the Substance	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	
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)	0.000686
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0.095 mg/m³
Risk Characterization Ratio (RCR)	0.000487
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

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: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

Page: 56/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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	1.3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.027429
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m ³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	/tra

Contributing exposure scenario		
Use descriptors covered	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	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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		
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)	0.013714	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	28.5 mg/m ³	
Risk Characterization Ratio (RCR)	0.146154	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for
	exposure arises

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	Use domain: professional	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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)	0.137143	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	95 mg/m³	
Risk Characterization Ratio (RCR)	0.487179	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	′tra	

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Use suitable eye protection.	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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	5.4857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.109714
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	'tra

Contributing exposure scenario		
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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)	0.137143	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	95 mg/m³	
Risk Characterization Ratio (RCR)	0.487179	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	3,6,9,12-tetraoxahexadecan-1-ol	
	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance	0.014 Pa	
during use		
Process temperature	20 °C	
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Provide a good standard of general or		
controlled ventilation (5 to 10 air	Effectiveness: 70 %	
changes per hour)		
Use suitable chemically resistant	Effectiveness: 80 %	
gloves.	LifeCliveriess. 00 /0	
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	5.4857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.109714	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	71.25 mg/m³	
Risk Characterization Ratio (RCR)	0.365385	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/t	ra	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Room size	100 m3
Application rate	10 l/min
Risk Management Measures	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure that the task is being carried	
out outside the breathing zone of a	
worker (distance head-product greater	
than 1m). Ensure that the task is not	
carried out overhead. Regular	
inspection and maintenance of	
equipment and machines. Ensure that the direction of airflow is clearly away	
from the worker.	
Use suitable eye protection.	
Exposure estimate and reference to it	its source
Assessment method	RISKOFDERM v2.1
Assessment method	Worker - dermal, long-term - systemic
Exposure estimate	22.02 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.4404
Assessment method	Stoffenmanager v5.6
Assessment method	Worker - inhalation, long-term - systemic
Exposure estimate	14.81 mg/m ³
Risk Characterization Ratio (RCR)	0.075949
Guidance to Downstream Users	0.07 3343
	pager pl/default capy For appling age: http://www.tag.al.and
search for "riskofderm".	nager.nl/default.aspx For scaling see: http://www.tno.nl and
Sealchiol haroldelli.	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
	PROC15: Use a laboratory reagent.
Use descriptors covered	Use domain: professional
Operational conditions	
	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and
Concentration of the substance	3,6,9,12-tetraoxahexadecan-1-ol
	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.014 Pa
during use	
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	0.3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.006857
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	47.5 mg/m³
Risk Characterization Ratio (RCR)	0.24359
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/t	ra

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
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 v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	14.1429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.282857
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	99.75 mg/m³
Risk Characterization Ratio (RCR)	0.511538
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

8. Short title of exposure scenario

Use in Cleaning Agents, (use in professional settings) ERC8a, ERC8d; PROC2, PROC3, PROC4, PROC8b, PROC9, PROC10, PROC11, PROC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	•

Contributing exposure scenario)
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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: professional	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 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	1.3714 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.027429	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	47.5 mg/m³	
Risk Characterization Ratio (RCR)	0.24359	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org/	tra	

Contributing exposure scenario		
Use descriptors covered	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	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

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	0.6857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.013714	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	28.5 mg/m³	
Risk Characterization Ratio (RCR)	0.146154	
Guidance to Downstream Users		
For scaling see: http://www.ecetoc.org	g/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises
	Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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)	0.137143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	tra

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/	'tra

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Risk Management Measures	
Provide a good standard of general	
ventilation (not less than 3 - 5 air	Effectiveness: 30 %
changes per hour)	
Use suitable eye protection.	
Exposure estimate and reference to it	ts 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)	0.137143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	66.5 mg/m³
Risk Characterization Ratio (RCR)	0.341026
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario		
	PROC10: Roller application or brushing	
Use descriptors covered	Use domain: professional	
Operational conditions		
	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and	
Concentration of the substance	3,6,9,12-tetraoxahexadecan-1-ol	
	Content: >= 0 % - <= 100 %	
Physical state	liquid	
Vapour pressure of the substance	0.014 Pa	
during use		
Process temperature	20 °C	
Flocess temperature		
Duration and Frequency of activity	480 min 5 days per week	
Indoor/Outdoor	Indoor	
Risk Management Measures		
Provide a good standard of general or		
controlled ventilation (5 to 10 air	Effectiveness: 70 %	
changes per hour)		
Use suitable chemically resistant	Effectiveness: 80 %	
gloves.	Effectiveness. 60 /0	
Use suitable eye protection.		
Exposure estimate and reference to		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - dermal, long-term - systemic	
Exposure estimate	5.4857 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.109714	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker	
	Worker - inhalation, long-term - systemic	
Exposure estimate	71.25 mg/m³	
Risk Characterization Ratio (RCR)	0.365385	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Guidanc	ce to Downstream Users
For scaling	ing see: http://www.ecetoc.org/tra

	I PROCITI Non inglistrial spraving
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
<u> </u>	·
Operational conditions	
	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and
Concentration of the substance	3,6,9,12-tetraoxahexadecan-1-ol
	Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	0.014 Pa
during use	
Process temperature	20 °C
Process temperature	
Duration and Fraguency of activity	480 min 5 days per week
Duration and Frequency of activity	
Indoor/Outdoor	Indoor
Room size	100 m3
Application rate	10 l/min
Risk Management Measures	
Wear chemically resistant gloves in	
combination with 'basic' employee	Effectiveness: 90 %
training.	
Ensure that the task is being carried	
out outside the breathing zone of a	
worker (distance head-product greater	
than 1m). Ensure that the task is not	
carried out overhead. Ensure that the	
direction of airflow is clearly away	
from the worker. Regular inspection	
and maintenance of equipment and	
machines.	
Use suitable eye protection.	
Exposure estimate and reference to	
Assessment method	RISKOFDERM v2.1
	Worker - dermal, long-term - systemic
Exposure estimate	22.02 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.4404
Assessment method	Stoffenmanager v5.6
	Worker - inhalation, long-term - systemic
Exposure estimate	14.81 mg/m³
Risk Characterization Ratio (RCR)	0.075949
Guidance to Downstream Users	nager.nl/default.aspx For scaling see: http://www.tno.nl and

Contributing exposure scenario

search for "riskofderm".

Page: 68/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	0.014 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	o its source
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	13.7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.274286
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	95 mg/m³
Risk Characterization Ratio (RCR)	0.487179
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org	y/tra

9. Short title of exposure scenario

Use in Hydraulic fluids, (consumer use) ERC9a, ERC9b; PC17

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC9a: Widespread use of functional fluid (indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	ERC9b: Widespread use of functional fluid (outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

	characterization was performed.
Operational conditions	

Use descriptors covered	PC17: Hydraulic Fluids.
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 30 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	4 uses per year
Room size	34 m3
Ventilation rate per hour	1.5
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 220 g Relevant for inhalative exposure estimates
	Amount per use 220 g Relevant for dermal exposure estimates
Exposure estimate and reference to	o its source
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	11.1275 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.4451
	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	0.4592 mg/m³
Risk Characterization Ratio (RCR)	0.003924
	The exposure calculation is based on the mean concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en	/healthanddisease/productsafety/ConsExpo.jsp

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Page: 70/83

BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Date / Previous version: 07.11.2022 Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

10. Short title of exposure scenario

Use in Coatings, (consumer use)

ERC8a, ERC8b, ERC8d, ERC8f; PC1, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC26, PC31, PC39

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	ERC8b: Widespread use of reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	1
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	ERC8f: Widespread use leading to inclusion into/onto article (outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario		
Use descriptors covered	PC1: Adhesives, Sealants	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 50 %	
Vapour pressure of the substance	0.014 Pa	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

during use	
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min
	Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 10 min
	Relevant for inhalative exposure estimates
Duration and Frequency of activity	52 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 0.08 g Relevant for dermal exposure
	estimates
Release area	200 cm ²
	Release area increases over time
Release duration	10 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0.0877 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.003507
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:
7.00000mont moneu	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.0285 mg/m³
Risk Characterization Ratio (RCR)	0.000243
	The exposure calculation is based on the mean
Oct towns to December 11	concentration per year.
Guidance to Downstream Users	//
For scaling see: http://www.rivm.nl/en/	healthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario		
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 50 %	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Duration and Frequency of activity	Exposure duration: 60 min	
	Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 60 min	
	Relevant for inhalative exposure estimates	
Duration and Frequency of activity	52 uses per year	
Room size	20 m3	
Ventilation rate per hour	0.6	
Temperature (Application)	20 °C	
body weight	65 kg	
Uptake fraction dermal	100 %	
	Amount per use 0.5 g Relevant for dermal exposure estimates	
Release area	20000 cm ²	
	Release area increases over time	
Release duration	60 min	
	Relevant for inhalative exposure estimates	
Exposure estimate and reference to	its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	0.5479 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.021918	
Trisk Griaracterization Tratio (TCTV)	The calculation is based on the internal chronic dose.	
	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:	
Assessment method	exposure to vapour - evaporation	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	0.0071 mg/m ³	
Risk Characterization Ratio (RCR)	0.000061	
, - /	The exposure calculation is based on the mean	
	concentration per year.	
Guidance to Downstream Users		
For scaling see: http://www.rivm.nl/en/l	nealthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 20 min
	Relevant for inhalative exposure estimates
Duration and Frequency of activity	52 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 0.05 g Relevant for dermal exposure
	estimates
Release area	200 cm ²
	Release area increases over time
Release duration	20 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant
A3C33mcnt method	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0.0548 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.002192
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:
Assessmentmethod	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.0283 mg/m³
Risk Characterization Ratio (RCR)	0.000242
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/	healthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario	
Use descriptors covered	PC9c: Finger paints
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 132 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 120 min

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	Relevant for inhalative exposure estimates
Duration and Frequency of activity	52 uses per year
Room size	20 m3
Ventilation rate per hour	0.6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
Release area	100000 cm ²
	Release area increases over time
Release duration	120 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	120 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant
Assessment method	application rate, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	3.9452 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.157808
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:
Assessment method	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.0097 mg/m ³
Risk Characterization Ratio (RCR)	0.000083
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/	/healthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario	
Use descriptors covered	PC15: Non-metal-surface treatment products.
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 20 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 30 min Relevant for inhalative exposure estimates

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Duration and Frequency of activity	104 uses per year
Room size	58 m3
Ventilation rate per hour	0.5
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 19 g Relevant for dermal exposure
	estimates
Release area	220000 cm ²
	Release area increases over time
Release duration	30 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant
Assessment method	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	16.6575 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.666301
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:
Assessment method	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.0012 mg/m ³
Risk Characterization Ratio (RCR)	0.00001
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/h	nealthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario	
Use descriptors covered	PC18: Ink and Toners.
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 132 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	104 uses per year

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Room size	20 m3
Ventilation rate per hour	0.6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
Release area	100000 cm ²
	Release area increases over time
Release duration	120 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	120 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to it	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant
Assessment method	application rate, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	7.8904 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.315616
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:
Assessment method	exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.0194 mg/m³
Risk Characterization Ratio (RCR)	0.000166
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/h	ealthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario	
Use descriptors covered	PC23: Leather tanning, dye, finishing, impregnation and care products.
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	6 uses per year
Room size	30 m3
Ventilation rate per hour	0.5

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 100 g Relevant for inhalative exposure
	estimates
	Amount per use 100 g Relevant for dermal exposure
	estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant
Assessment method	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	12.6449 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.505796
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:
Assessment method	evaporation model - instantaneous release
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.8984 mg/m³
Risk Characterization Ratio (RCR)	0.007679
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/h	ealthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario	
Use descriptors covered	PC26: Paper and Board dye, finishing and impregnation products: including bleaches and other processing aids
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 25 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 20 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	4 uses per year
Room size	34 m3
Ventilation rate per hour	1.5
body weight	65 kg
Uptake fraction dermal	100 %
Spray duration	900 sec
Contact rate	100 mg/min

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Release duration	15 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to	o its source
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	0.0632 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.002529
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:
	Exposure to spray/dust
	Consumer - inhalation, long-term - systemic
Exposure estimate	0.0542 mg/m ³
Risk Characterization Ratio (RCR)	0.000463
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en	/healthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario	
Use descriptors covered	PC31: Polishes and Wax Blends.
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	104 uses per year
Room size	34 m3
Ventilation rate per hour	1.5
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %
	Amount per use 0.25 g Relevant for dermal exposure estimates
Release area	150000 cm ²
	Release area increases over time

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Release duration	60 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	its source
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant
Assessment method	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0.5479 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.021918
	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	0.0144 mg/m³
Risk Characterization Ratio (RCR)	0.000123
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario		
Use descriptors covered	PC39: Cosmetics, personal care products.	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 50 %	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	730 uses per year	
body weight	61 kg	
Uptake fraction dermal	100 %	
	Amount per use 0.8 g Relevant for dermal exposure estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	13.1148 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.52459	
	The calculation is based on the internal chronic dose.	
Guidance to Downstream Users		
For scaling see: http://www.rivm.nl/en/l	nealthanddisease/productsafety/ConsExpo.jsp	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

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11. Short title of exposure scenario

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

Control of exposure and risk management measures

Use descriptors covered ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.	Contributing exposure scenario	
	Use descriptors covered	(no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 5 %
Vapour pressure of the substance during use	0.014 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 20 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 20 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	128 uses per year
Room size	20 m3
Ventilation rate per hour	0.5
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 %

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: BUTYL TRIGLYCOL

(ID no. 30034746/SDS_GEN_GB/EN)

	Amount per use 27 g Relevant for dermal exposure
	estimates
Release area	100000 cm ²
	Release area increases over time
Release duration	20 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to	o its source
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant
	application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	7.2835 mg/kg bw/day
Risk Characterization Ratio (RCR)	0.291338
	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	0.0001 mg/m³
Risk Characterization Ratio (RCR)	0.000001
	The exposure calculation is based on the mean
	concentration per year.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en	/healthanddisease/productsafety/ConsExpo.jsp

Contributing exposure scenario		
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).	
Operational conditions		
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 15 %	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 10 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	128 uses per year	
Room size	20 m3	
Ventilation rate per hour	2.5	
body weight	65 kg	
Uptake fraction dermal	100 %	
Spray duration	24.6 sec	
Contact rate	46 mg/min	
Release duration	0.41 min	

time to time.

Date / Revised: 02.02.2024 Version: 12.0
Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

	Relevant for dermal exposure estimates	
Risk Management Measures		
Consumer Measures	Ensure spraying away from persons.	
Exposure estimate and reference to its source		
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	0.0153 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.000611	
	The calculation is based on the internal chronic dose.	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust	
	Consumer - inhalation, long-term - systemic	
Exposure estimate	0.0017 mg/m ³	
Risk Characterization Ratio (RCR)	0.000014	
	The exposure calculation is based on the mean concentration per year.	
Guidance to Downstream Users		
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp		

Contributing exposure scenario		
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).	
Operational conditions	•	
Concentration of the substance	Reaction mass of 2-(2-(2-butoxyethoxy)ethoxy)ethanol and 3,6,9,12-tetraoxahexadecan-1-ol Content: >= 0 % - <= 15 %	
Vapour pressure of the substance during use	0.014 Pa	
Process temperature	20 °C	
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	Application duration: 10 min Relevant for inhalative exposure estimates	
Duration and Frequency of activity	128 uses per year	
Room size	20 m3	
Ventilation rate per hour	2.5	
Temperature (Application)	20 °C	
body weight	65 kg	
Uptake fraction dermal	100 %	
	Amount per use 0.16 g Relevant for dermal exposure estimates	
Release area	17100 cm ²	
	Release area is constant	

time to time.

Date / Revised: 02.02.2024 Version: 12.0

Date / Previous version: 07.11.2022 Previous version: 11.0

Product: **BUTYL TRIGLYCOL**

(ID no. 30034746/SDS_GEN_GB/EN)

Date of print 16.10.2025

Release duration	10 min	
	Relevant for inhalative exposure estimates	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant	
	application, Uptake model: Uptake fraction	
	Consumer - dermal, long-term - systemic	
Exposure estimate	0.1295 mg/kg bw/day	
Risk Characterization Ratio (RCR)	0.005179	
	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	0.0004 mg/m³	
Risk Characterization Ratio (RCR)	0.000004	
	The exposure calculation is based on the mean	
	concentration per year.	
Guidance to Downstream Users		
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp		

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