

# Safety data sheet

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

Date / Revised: 08.10.2025

Version: 7.0

Date / Previous version: 12.11.2024

Previous version: 6.1

Product: **2-ETHYLHEXANOL**

(ID no. 30034817/SDS\_GEN\_DE/EN)

Date of print 09.10.2025

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

### 1.1. Product identifier

## 2-ETHYLHEXANOL

Chemical name: 2-ethylhexan-1-ol

CAS Number: 104-76-7

REACH registration number: 01-2119487289-20-0005, 01-2119487289-20

### 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

Operating Division Petrochemicals

Telephone: +49 621 60-42151

E-mail address: sds-petrochemicals@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Inhalation - mist)	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

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

### 2.2. Label elements

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

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye protection or face protection.

Precautionary Statements (Response):

P312	Call a POISON CENTER or physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.
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## 2.3. Other hazards

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

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

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

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Chemical nature

2-Ethylhexan-1-ol

Content (W/W): > 99,5 %

CAS Number: 104-76-7

EC-Number: 203-234-3

Substance with EU occupational exposure limit

Acute Tox. 4 (Inhalation - mist)

Skin Irrit. 2

Eye Irrit. 2

STOT SE 3 (irr. to respiratory syst.)

Aquatic Chronic 3

H319, H315, H332, H335, H412

Regulatory relevant ingredients

2-Ethylhexan-1-ol

Content (W/W): >= 75 % - <= 100 %

CAS Number: 104-76-7

EC-Number: 203-234-3

Substance with EU occupational exposure limit

Acute Tox. 4 (Inhalation - mist)

Skin Irrit. 2

Eye Irrit. 2

STOT SE 3 (irr. to respiratory syst.)

Aquatic Chronic 3

H319, H315, H332, H335, H412

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

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## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

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

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

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

On ingestion:

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

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

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

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

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

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

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

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

Advice: Flammable liquid 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.

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## SECTION 6: Accidental Release Measures

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

Release of substance/product can cause fire or explosion. 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.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

### 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

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

### 6.4. Reference to other sections

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

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

Electrical devices must meet the specified temperature class.

Temperature class: T3 (Autoignition temperature >200 °C).

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

Further information on storage conditions: Containers should be stored tightly sealed in a dry place. Keep under dry nitrogen. Blanket with nitrogen if the container is opened.

Storage class according to TRGS 510 (originally VCI, Germany): (10) Combustible liquids

### 7.3. Specific end use(s)

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

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

Components with occupational exposure limits

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

104-76-7: 2-Ethylhexan-1-ol

TWA value 5,4 mg/m<sup>3</sup> ; 1 ppm (OEL (EU))  
indicative

OEL 5,4 mg/m<sup>3</sup> ; 1 ppm (TRGS 900 (DE)), Vapor and aerosol

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

OEL 5,4 mg/m<sup>3</sup> ; 1 ppm (TRGS 900 (DE)), Vapor and aerosol

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

TWA value 1 ppm (EU SCOEL)

Ceiling limit value/factor: 8HR

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#### PNEC

freshwater: 0,0278 mg/l

marine water: 0,00278 mg/l

intermittent release: 0,171 mg/l

sediment (freshwater): 0,272 mg/kg

sediment (marine water): 0,0272 mg/kg

soil: 0,0382 mg/kg

STP: 10 mg/l

oral (secondary poisoning): 55 mg/kg

#### DNEL

worker:

Long-term exposure- systemic effects, Inhalation: 12,8 mg/m<sup>3</sup>

worker:

Long-term exposure- systemic effects, dermal: 23 mg/kg

worker:

Short-term exposure - local effects, Inhalation: 53,2 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, Inhalation: 2,3 mg/m<sup>3</sup>

consumer:

Long-term exposure- systemic effects, dermal: 11,4 mg/kg

consumer:

Short-term exposure - local effects, Inhalation: 26,6 mg/m<sup>3</sup>

worker:

Long-term exposure - local effects, Inhalation: 53,2 mg/m<sup>3</sup>

consumer:

Long-term exposure - local effects, Inhalation: 26,6 mg/m<sup>3</sup>

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consumer:

Long-term exposure- systemic effects, oral: 1,1 mg/kg

## 8.2. Exposure controls

### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: 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:

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

Body protection:

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

### General safety and hygiene measures

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

### Environmental exposure controls

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

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## SECTION 9: Physical and Chemical Properties

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

State of matter:	liquid
Form:	liquid
Colour:	colourless
Odour:	alcohol-like



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Odour threshold:	not determined	
Melting point:	-89 °C	(ASTM D97)
Boiling point:	186 °C	(OECD Guideline 103)
	(1.013 hPa)	
Flammability:	Combustible liquid.	(derived from flash point)
Lower explosion limit:	0,88 %(V)	
	Literature data., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Flash point:	75 °C	(closed cup)
Auto-ignition temperature:	280 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
pH value:		
	neutral, of low solubility	
Viscosity, dynamic:	9,845 mPa.s	
	(20 °C)	
Thixotropy:	not thixotropic	
Solubility in water:		
	0,9 g/l	
	(20 °C)	
Partitioning coefficient n-octanol/water (log Kow):	2,9	(OECD Guideline 117)
	(25 °C; pH value: 7)	
Vapour pressure:	0,93 hPa	(OECD Guideline 104)
	(20 °C)	
Relative density:	0,832	(ASTM D4052)
	(20 °C)	
Density:	0,832 g/cm <sup>3</sup>	(ASTM D4052)
	(20 °C)	
Relative vapour density (air):	4,49	(calculated)
	(20 °C)	
	Heavier than air.	

#### Particle characteristics

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

## 9.2. Other information

### Information with regard to physical hazard classes

#### Explosives

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

Impact sensitivity: Based on the chemical structure there is no shock-sensitivity.

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#### Oxidizing properties

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

#### Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-  
ignition at room-temperature.  
  
not self-igniting

#### Self-heating substances and mixtures

Self heating ability: It is not a substance capable of  
spontaneous heating.

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

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

#### Corrosion to metals

No corrosive effect on metal.

#### **Other safety characteristics**

pKA:

The substance does not dissociate.

Adsorption/water - soil: KOC: 35,28; log KOC: 1,55

(calculated)

Surface tension: 47 mN/m  
(20 °C; 0,81 g/l)

(OECD Guideline 115)

Molar mass: 130,23 g/mol

SAPT-Temperature:

Study scientifically not justified.

Evaporation rate:

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

## **SECTION 10: Stability and Reactivity**

### **10.1. Reactivity**

When heated can give off ignitable vapours.

Corrosion to metals: No corrosive effect on metal.

Formation of  
flammable gases: Remarks:

Forms no flammable gases in the  
presence of water.

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## 10.2. Chemical stability

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

## 10.3. Possibility of hazardous reactions

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

## 10.4. Conditions to avoid

Avoid sources of ignition.

## 10.5. Incompatible materials

Substances to avoid:  
strong oxidizing agents

## 10.6. Hazardous decomposition products

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

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# SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. Of moderate toxicity after short-term inhalation.

Experimental/calculated data:

LD50 rat (oral): 2.047 mg/kg (similar to OECD guideline 401)

LC50 rat (by inhalation): > 0,89 - <= 5,3 mg/l 4 h (similar to OECD guideline 403)

An aerosol was tested.

LD50 rat (dermal): > 3.000 mg/kg (OECD Guideline 402)

### Irritation

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Irritant. (OECD Guideline 404)

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Serious eye damage/irritation

rabbit: Irritant. (OECD Guideline 405)

Serious eye damage/irritation

rabbit: Irritant. (OECD Guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization:

The substance did not cause skin sensitization in humans.

Experimental/calculated data:

Human Maximization Test human: Non-sensitizing.

#### Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture.

The substance was not mutagenic in studies with mammals.

#### Carcinogenicity

Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by gavage, a carcinogenic effect was not observed.

#### Reproductive toxicity

Assessment of reproduction toxicity:

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

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

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

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

Assessment of repeated dose toxicity:

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

#### Aspiration hazard

not applicable

#### Interactive effects

No data available.

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## 11.2. Information on other hazards

### Endocrine disrupting properties

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

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## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. Harmful to aquatic organisms based on long-term (chronic) toxicity study data. 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) 17,1 mg/l, *Leuciscus idus* (OECD 203; ISO 7346; 84/449/EWG, C.1, Flow through.)

Aquatic invertebrates:

EC50 (48 h) 39 mg/l, *Daphnia magna* (Directive 84/449/EEC, C.2, static)

Nominal concentration.

Aquatic plants:

EC50 (72 h) 21,0 mg/l (growth rate), *Scenedesmus subspicatus* (Directive 88/302/EEC, part C, p. 89)

Nominal concentration.

EC10 (72 h) 7,41 mg/l (growth rate), *Desmodesmus subspicatus* (Directive 88/302/EEC, part C, p. 89)

Nominal concentration.

Microorganisms/Effect on activated sludge:

No data available.

Chronic toxicity to fish:

other (30 d) 0,278 mg/l, *Brachydanio rerio* (OECD Guideline 210, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

Chronic toxicity to aquatic invertebrates:

EC10 (21 d) 1,53 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

The statement of the toxic effect relates to the analytically determined concentration.

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Assessment of terrestrial toxicity:  
No data available concerning terrestrial toxicity.

## 12.2. Persistence and degradability

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

Elimination information:  
79 - 99,9 % BOD of the ThOD (14 d) (OECD 301C; ISO 9408; 92/69/EWG, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C))

Assessment of stability in water:  
No data available.

Information on Stability in Water (Hydrolysis):  
No data available.

## 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:  
Significant accumulation in organisms is not to be expected.

Bioaccumulation potential:  
No data available.

## 12.4. Mobility in soil

Assessment transport between environmental compartments:  
Volatility: The substance will not evaporate into the atmosphere from the water surface.  
Adsorption in soil: Adsorption to solid soil phase is not expected.

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Endocrine disrupting properties

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

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## 12.7. Other adverse effects

### Results of PMT and vPvM assessment

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

### Additional information

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

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

Dispose of in accordance with national, state and local regulations.

Contaminated packaging:  
Disposal must be made according to official regulations.

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## SECTION 14: Transport Information

### Land transport

#### ADR

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

#### RID

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

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Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

### **Inland waterway transport**

ADN

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

### **Transport in inland waterway vessel**

UN number or ID number:	ID9003
UN proper shipping name:	SUBSTANCES WITH FLASH-POINT BETWEEN 60°C - 100°C (2-ETHYLHEXAN-1-OL)

Transport hazard class(es):	9, N3, F
Packing group:	Not applicable
Environmental hazards:	yes
Type of inland waterway vessel:	N
Cargo tank design:	4
Cargo tank type:	3

### **Sea transport**

IMDG

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

### **Air transport**



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## IATA/ICAO

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

### 14.1. UN number or ID number

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

### 14.2. UN proper shipping name

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

### 14.3. Transport hazard class(es)

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

### 14.4. Packing group

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

### 14.5. Environmental hazards

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

### 14.6. Special precautions for user

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

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

Regulation:	IBC-Code
Product name:	Octanol (all isomers)
Pollution category:	Y
Ship Type:	2

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## SECTION 15: Regulatory Information

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

#### Prohibitions, Restrictions and Authorizations

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

Hazardous Incident Ordinance (Germany):

Listed in above regulation: no

Classification applies for standard conditions of temperature and pressure.

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

Listed in above regulation: no

Classification applies for standard conditions of temperature and pressure.

Classification according to 'TA-Luft' (Germany):

5.2.5: Organic gases, general guidance

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting. ID-No.: 134

The specifications of the Technical Rule for Hazardous Substances (TRGS) 401 must be observed (TRGS 401: Risks resulting from skin contact - identification, assessment, measures).

German Regulation TA Luft (Technical Instruction on Air Quality Control, i.e. first Directive to the Federal Immission Control Ordinance)

Law on the Protection of Working Youth

### 15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

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## SECTION 16: Other Information

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

Aquatic Acute 3

Skin Irrit. 2

Eye Irrit. 2A

Flam. Liq. 4

Acute Tox. 5 (oral)

STOT SE 3 (irritating to respiratory system)

Acute Tox. 4 (Inhalation - mist)

Aquatic Chronic 3

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

Acute Tox.	Acute toxicity
Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation
STOT SE	Specific target organ toxicity — single exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations

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

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

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

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## Annex: Exposure Scenarios

### Index

#### 1. Formulation

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

#### 2. Use in Coatings

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

#### 3. Use in Functional Fluids

IS; ERC7; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC15

#### 4. Use in Cleaning Agents

IS; ERC4; PROC2, PROC3, PROC7, PROC8a, PROC8b

#### 5. Use in Oil and Gas field drilling and production operations

IS; ERC4; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC15

#### 6. Use as an intermediate

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

#### 7. Use in Coatings

PW; ERC8a, ERC8d; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

#### 8. Use in Functional Fluids

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#### 9. Use in/as Formulation

PW; ERC8d; PROC5, PROC8a, PROC8b

#### 10. Use in/as Formulation

C; ERC8a, ERC8d; PC8, PC13

#### 11. Use as co-formulant in Plant protection products

PW; ERC8a, ERC8d; PROC8a, PROC11

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### 1. Short title of exposure scenario

Formulation

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

### Control of exposure and risk management measures

Contributing exposure scenario
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Use descriptors covered	ESVOC SpERC 4.10a.v1: ESVOC SpERC 4.10a.v1	
Operational conditions		
Annual amount per site	240.000 kg	
Minimum emission days per year	300	
Emission factor air	0,5 %	
Emission factor water	0,2 %	
Emission factor soil	0,01 %	
Receive Surf. Water (Flow Rate).	18.000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Filtration, Waste gas treatment by thermal oxidation, Adsorption	
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation	
Type of STP	Municipal STP	
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0,663374	
	Risk from environmental exposure is driven by soil.	
Maximum amount of safe use	1.206 kg/d	
Risk from environmental exposure is driven by soil.		

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance	93 Pa

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during use	
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0069 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000298
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0542 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,004238
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0542 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,00102
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,011925
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,005963
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	11,3925 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,890039
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,3925 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,214145
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	
<b>Contributing exposure scenario</b>	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial



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<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	

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Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or	

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controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,059627
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual	

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phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,002981
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 2. Short title of exposure scenario

Use in Coatings

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

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial

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<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0411 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001789
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776

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Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553



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Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	9,765 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,762891
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	9,765 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,183553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., Alternatively:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	3,2914 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,143106
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable	

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respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,8229 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,035776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place	

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are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	

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Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Local exhaust ventilation	Effectiveness: 95 %
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Use a local exhaust ventilation with adequate effectiveness (95%)., Wear a suitable respiratory protection with adequate effectiveness (90%)., Alternatively:, Reduce concentration to less than 5%	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	5,1429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,223602
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,6275 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,127148
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	1,6275 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,030592
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid

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Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0823 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,003578
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic



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Product: **2-ETHYLHEXANOL**

(ID no. 30034817/SDS\_GEN\_DE/EN)

Date of print 09.10.2025

Exposure estimate	6,8355 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,534023
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,8355 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,128487
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1646 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,007155
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0041 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000179
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0325 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,002543

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Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0325 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000612
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 4.4a.v1: ESVOC SpERC 4.4a.v1
<b>Operational conditions</b>	
Annual amount per site	66.000 kg
Minimum emission days per year	300
Emission factor air	98 %
Emission factor water	0,7 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Filtration, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,219538
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	100,2 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

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### 3. Short title of exposure scenario

Use in Functional Fluids

IS; ERC7; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC15

### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0,0411 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001789
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant	

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gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,8229 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,035776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in	

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place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	

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<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid



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Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0823 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,003578
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	6,8355 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,534023
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,8355 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,128487
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

**Contributing exposure scenario**

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<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1646 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,007155
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process

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	without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0041 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000179
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0325 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,002543
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0325 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000612
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	
<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 8.10b.v1: ESVOC SpERC 8.10b.v1

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<b>Operational conditions</b>	
Annual amount per site	90.000 kg
Minimum emission days per year	20
Emission factor air	0,1 %
Emission factor water	0,03 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Filtration, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,215191
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	2.091,2 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

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#### 4. Short title of exposure scenario

Use in Cleaning Agents

IS; ERC4; PROC2, PROC3, PROC7, PROC8a, PROC8b

#### Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 4.6a.v1: ESVOC SpERC 4.6a.v1
<b>Operational conditions</b>	

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Date / Revised: 08.10.2025

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Date / Previous version: 12.11.2024

Previous version: 6.1

Product: **2-ETHYLHEXANOL**

(ID no. 30034817/SDS\_GEN\_DE/EN)

Date of print 09.10.2025

Annual amount per site	30 kg
Minimum emission days per year	20
Emission factor air	30 %
Emission factor water	0,003 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

#### ***Risk Management Measures***

Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d

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

Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,184302
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,813879 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

#### ***Contributing exposure scenario***

<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b><i>Operational conditions</i></b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0549 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,002385
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	1,085 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,084766
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	1,085 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,020395
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0274 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001193
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC7: Industrial spraying Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	

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Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., Alternatively:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,074534
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,847656
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	10,85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,203947
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week



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Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid

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Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 5. Short title of exposure scenario

Use in Oil and Gas field drilling and production operations

IS; ERC4; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC15

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., Alternatively:, Reduce concentration to less than 5%	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,002981
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	2,7125 mg/m <sup>3</sup>

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Risk Characterization Ratio (RCR)	0,211914
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,7125 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,050987
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., Alternatively:, In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness., Reduce concentration to less than 5%	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	2,7125 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,211914
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	2,7125 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,050987
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	

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Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0,5486 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,023851
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0,0274 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001193
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic



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Previous version: 6.1

Product: **2-ETHYLHEXANOL**

(ID no. 30034817/SDS\_GEN\_DE/EN)

Date of print 09.10.2025

Exposure estimate	0,2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,011925
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0069 mg/kg bw/day

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Risk Characterization Ratio (RCR)	0,000298
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0542 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,004238
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0542 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,00102
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
<b>Operational conditions</b>	
Annual amount per site	440 kg
Minimum emission days per year	30
Emission factor air	0,1 %
Emission factor water	7 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m <sup>3</sup> /d)	2.000 m <sup>3</sup> /d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,207793
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	7,1 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

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## 6. Short title of exposure scenario

Use as an intermediate

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

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	0,0686 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,002981
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant	

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gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,059627
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in	

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place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	

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<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,119255
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,059627
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	
<b>Contributing exposure scenario</b>	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional



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	controlled exposure or processes with equivalent containment condition Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	
Use suitable chemically resistant gloves., Alternatively:, Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1371 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,005963
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	11,3925 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,890039

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Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,3925 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,214145
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,2743 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,011925
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0069 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000298
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0542 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,004238
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local

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Exposure estimate	0,0542 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,00102
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC6a: Use of intermediate
<b>Operational conditions</b>	
Annual amount per site	1.800.000 kg
Minimum emission days per year	300
Emission factor air	0,001 %
Emission factor water	0,081 %
Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	388.800 m <sup>3</sup> /d
Dilution factor river	39,88
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m <sup>3</sup> /d)	10.000 m <sup>3</sup> /d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,497365
	Risk from environmental exposure is driven by marine sediment.
Maximum amount of safe use	12.063,6 kg/d
Risk from environmental exposure is driven by marine sediment.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC6a: Use of intermediate
<b>Operational conditions</b>	
Annual amount per site	30.000 kg
Minimum emission days per year	100
Emission factor air	5 %

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Version: 7.0

Date / Previous version: 12.11.2024

Previous version: 6.1

Product: **2-ETHYLHEXANOL**

(ID no. 30034817/SDS\_GEN\_DE/EN)

Date of print 09.10.2025

Emission factor water	2 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,321587
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	93,3 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC6a: Use of intermediate
<b>Operational conditions</b>	
Annual amount per site	150.000 kg
Minimum emission days per year	300
Emission factor air	0,01 %
Emission factor water	0,3 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v3.6, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,697076

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	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	717,3 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

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## 7. Short title of exposure scenario

Use in Coatings

PW; ERC8a, ERC8d; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

## Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional
Operational conditions	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 5\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	

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Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	5,6571 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,245963
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	

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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0137 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000596
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic



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Exposure estimate	0,5486 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,023851
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,847656
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	10,85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,203947
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	
Use suitable chemically resistant gloves., Wear a suitable respiratory	

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protection with adequate effectiveness (90%).	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	4,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,186335
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	7,595 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,593359
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	7,595 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,142763
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC10: Roller application or brushing Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	

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Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,0971 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,047702
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of	

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staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,5486 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,023851
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,847656
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	10,85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,203947
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices	

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are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,5486 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,023851
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices	

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are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,5486 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,023851
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	10,85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,847656
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	10,85 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,203947
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices	

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are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0274 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001193
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of	

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staff exposed.	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0549 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,002385
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,423828
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	5,425 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,101974
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 5 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	



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Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0014 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00006
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0108 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000848
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0108 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000204
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.3b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	5.000.000 kg
Minimum emission days per year	365
Emission factor air	98 %
Emission factor water	1 %
Emission factor soil	1 %
Receive Surf. Water (Flow Rate).	18.000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,268441
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	10,2 kg/d

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Risk from environmental exposure is driven by freshwater sediment.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.3b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	5.000.000 kg
Minimum emission days per year	365
Emission factor air	98 %
Emission factor water	1 %
Emission factor soil	1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,19057
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	14,4 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

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## 8. Short title of exposure scenario

Use in Functional Fluids

PW; ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC8a, PROC9, PROC15, PROC20

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC20: Use of functional fluids in small devices Use domain: professional

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<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: $\geq 0\%$ - $\leq 25\%$
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,2057 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,008944
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

**Contributing exposure scenario**

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<b>Use descriptors covered</b>	PROC15: Use a laboratory reagent. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0411 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,001789
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	

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<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,8229 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,035776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	9,765 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,762891
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local

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Exposure estimate	9,765 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,183553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., In case no respiratory protection is used:, Use a local exhaust ventilation with adequate effectiveness.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic

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Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	

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Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0823 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,003578
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	6,8355 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,534023
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	6,8355 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,128487
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Provide a good standard of general or controlled ventilation (5 to 10 air	



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changes per hour)	
Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,1646 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,007155
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,381445
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	4,8825 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,091776
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Assumes activities are at ambient temperature.	
<b>Risk Management Measures</b>	
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	

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Use suitable chemically resistant gloves.	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0041 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000179
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	0,0325 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,002543
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0325 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000612
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 9.13b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	5.000.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m <sup>3</sup> /d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,604998
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	4,5 kg/d

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Risk from environmental exposure is driven by freshwater sediment.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 9.13b.v2
<b>Operational conditions</b>	
Annual amount used in the EU	5.000.000 kg
Minimum emission days per year	365
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,215645
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	12,7 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

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## 9. Short title of exposure scenario

Use in/as Formulation

PW; ERC8d; PROC5, PROC8a, PROC8b

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

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<b>Operational conditions</b>	
Annual amount used in the EU	2.500.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,565667
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	2,4 kg/d
Risk from environmental exposure is driven by soil.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC5: Mixing or blending in batch processes Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual	

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phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., Alternatively:, Reduce concentration to less than 5%	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	
Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant	Effectiveness: 80 %

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gloves.	
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., Alternatively:, Reduce concentration to less than 5%	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,635742
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	8,1375 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,152961
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
	Assumes activities are at ambient temperature.
<b>Risk Management Measures</b>	

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Wear suitable respiratory protection.	Effectiveness: 90 %
Use suitable chemically resistant gloves.	Effectiveness: 80 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Ensure good work practices are implemented. Minimise number of staff exposed.	
Use suitable chemically resistant gloves., Wear a suitable respiratory protection with adequate effectiveness (90%)., Alternatively:, Reduce concentration to less than 5%	
Use suitable eye protection.	
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,6457 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,071553
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - systemic
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,254297
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,255 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,061184
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Worker
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>	

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## 10. Short title of exposure scenario

Use in/as Formulation

C; ERC8a, ERC8d; PC8, PC13

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ESVOC SpERC 8.17.v1: ESVOC SpERC 8.17.v1
<b>Operational conditions</b>	
Annual amount used in the EU	500.000 kg

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Minimum emission days per year	365
Emission factor air	95 %
Emission factor water	2,5 %
Emission factor soil	2,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,184693
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,370848 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	ESVOC SpERC 8.17.v1: ESVOC SpERC 8.17.v1
<b>Operational conditions</b>	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	365
Emission factor air	95 %
Emission factor water	2,5 %
Emission factor soil	2,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP



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<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,18956
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,361327 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

<b>Contributing exposure scenario</b>	
Use descriptors covered	PC8: Biocidal Products.
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	Exposure duration: 1,33 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 1,33 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	6 uses per year
Room size	1 m <sup>3</sup>
Ventilation rate per hour	0,6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 % Relevant for dermal exposure estimates
	Relevant for dermal exposure estimates
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm <sup>2</sup>
	Release area is constant
Release duration	1,33 min
	Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0006 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000055
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v6.0, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic

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Exposure estimate	0,0009 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000376
	The exposure calculation is based on the mean concentration on the day of exposure.
<b>Guidance to Downstream Users</b>	
For scaling see: <a href="http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp">http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp</a>	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PC13: Fuels.
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 25 %
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	Exposure duration: 1,33 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 1,33 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	6 uses per year
Room size	1 m <sup>3</sup>
Ventilation rate per hour	0,6
Temperature (Application)	20 °C
body weight	65 kg
Uptake fraction dermal	100 % Relevant for dermal exposure estimates
	Relevant for dermal exposure estimates
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm <sup>2</sup>
	Release area is constant
Release duration	1,33 min
	Relevant for inhalative exposure estimates
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ConsExpo v4.1, Dermal model: instant application, Uptake model: Uptake fraction
	Consumer - dermal, long-term - systemic
Exposure estimate	0,0006 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000055
	The calculation is based on the internal chronic dose.
Assessment method	EASY TRA v6.0, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,0009 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000376
	The exposure calculation is based on the mean

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

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## 11. Short title of exposure scenario

Use as co-formulant in Plant protection products

PW; ERC8a, ERC8d; PROC8a, PROC11

## Control of exposure and risk management measures

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ECPA SPERC 8d.2.v2
<b>Operational conditions</b>	
Annual amount used in the EU	170.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,184301
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,505426 kg/d
Risk from environmental exposure is driven by freshwater sediment.	
<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	ECPA SPERC 8d.2.v2

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<b>Operational conditions</b>	
Annual amount used in the EU	170.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
<b>Risk Management Measures</b>	
Type of STP	no STP
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,184301
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,505426 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - dermal, long-term - systemic
Exposure estimate	8,57 mg/kg bw/day

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Risk Characterization Ratio (RCR)	0,372609
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,7 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,054687
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,7 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,013158
Assessment method	EASY TRA v6.0, Workplace measurements

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - dermal, long-term - systemic
Exposure estimate	4,39 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,19087
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,008 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000625
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,008 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,00015
Assessment method	EASY TRA v6.0, Workplace measurements

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - dermal, long-term - systemic
Exposure estimate	2,9 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,126087
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	0,01 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000781
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - inhalation, long-term - local
Exposure estimate	0,01 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,000188
Assessment method	EASY TRA v6.0, Workplace measurements

<b>Contributing exposure scenario</b>	
<b>Use descriptors covered</b>	PROC11: Non industrial spraying Use domain: professional
<b>Operational conditions</b>	
Concentration of the substance	2-Ethylhexan-1-ol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	93 Pa
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Outdoor
	Assumes activities are at ambient temperature.
<b>Exposure estimate and reference to its source</b>	
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - dermal, long-term - systemic
Exposure estimate	0,866 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,037652
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - inhalation, long-term - systemic
Exposure estimate	5,25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,410156
Assessment method	EASY TRA v6.0, Workplace measurements
	Worker - inhalation, long-term - local

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Exposure estimate	5,25 mg/m <sup>3</sup>
Risk Characterization Ratio (RCR)	0,098684
Assessment method	EASY TRA v6.0, Workplace measurements

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