

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: 31.01.2025

Version: 6.0

Date / Previous version: 05.04.2024

Previous version: 5.0

Product: **n-PENTANOL**

(ID no. 30036709/SDS_GEN_DE/EN)

Date of print 18.10.2025

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

1.1. Product identifier

n-PENTANOL

Chemical name: pentan-1-ol

CAS Number: 71-41-0

REACH registration number: 01-2119491284-34-0000

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

Relevant identified uses: Chemical

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

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE

67056 Ludwigshafen

GERMANY

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]

Flam. Liq. 3	H226 Flammable liquid and vapour.
Acute Tox. 4 (Inhalation - vapour)	H332 Harmful if inhaled.
Skin Irrit. 2	H315 Causes skin irritation.
Eye Dam. 1	H318 Causes serious eye damage.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 2	H411 Toxic 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:

Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic 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):

P310	Immediately call a POISON CENTER or physician.
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):

P233	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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Hazard determining component(s) for labelling: 1-pentanol

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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. The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

1-pentanol

CAS Number: 71-41-0
EC-Number: 200-752-1
INDEX-Number: 603-200-00-1

Flam. Liq. 3
Acute Tox. 4 (Inhalation - vapour)
Skin Irrit. 2
Eye Dam. 1
STOT SE 3 (irr. to respiratory syst.)
Aquatic Chronic 2
H226, H318, H315, H332, H335, H411

Regulatory relevant ingredients

1-pentanol

Content (W/W): > 99 % - <= 100 %
CAS Number: 71-41-0
EC-Number: 200-752-1
INDEX-Number: 603-200-00-1

Flam. Liq. 3
Acute Tox. 4 (Inhalation - vapour)
Skin Irrit. 2
Eye Dam. 1
STOT SE 3 (irr. to respiratory syst.)
Aquatic Chronic 2
H226, H318, H315, H332, H335, H411

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. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

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

On contact with eyes:

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

On ingestion:

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

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

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

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

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

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

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

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media for safety reasons:

water jet

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Additional information:

Use extinguishing measures to suit surroundings.

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.

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.

Storage class according to TRGS 510 (originally VCI, Germany): (3) Flammable 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.

71-41-0: 1-pentanol

OEL 73 mg/m³ ; 20 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 2

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)

Short Term Exposure Classification: (TRGS 900 (DE))

Category I: Substances for which the localized effect has an assigned exposure limit or for substances with a sensitizing effect in respiratory passages

PNEC

freshwater: 0,0059 mg/l

marine water: 0,00059 mg/l

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intermittent release: 2,6 mg/l

sediment (freshwater): 0,025 mg/kg

sediment (marine water): 0,0025 mg/kg

soil: 0,00153 mg/kg

STP: 37 mg/l

DNEL

worker:

Long-term exposure - local effects, Inhalation: 73,16 mg/m³

worker:

Short-term exposure - local effects, Inhalation: 292 mg/m³

consumer:

Long-term exposure- systemic effects, oral: 12,5 mg/kg

consumer:

Long-term exposure - local effects, Inhalation: 13 mg/m³

consumer:

Short-term exposure - local effects, Inhalation: 218 mg/m³

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

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

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Manufacturer's directions for use should be observed because of great diversity of types.

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

Eye protection:

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

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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

Avoid inhalation of vapour. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

Environmental exposure controls

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

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	liquid	
Colour:	colourless	
Odour:	sweetish	
Odour threshold:		
	not determined	
Melting point:	-78,6 °C	(OECD Guideline 102)
Boiling point:	138 °C	(other)
	(1.013,25 hPa)	
Flammability:	Flammable.	(derived from flash point)
Lower explosion limit:		
	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:		
	For liquids not relevant for classification and labelling.	
Flash point:	47 °C	(ISO 13736, closed cup)
Auto-ignition temperature:	300 °C	(DIN 51794)
Thermal decomposition:	10 J/g (DSC (DIN 51007))	
pH value:	approx. 7	
Viscosity, dynamic:	3,441 mPa.s	
	(24,9 °C)	
	Literature data.	
Thixotropy:	not thixotropic	
Solubility in water:		(Directive 92/69/EEC, A.6)
	19,4 g/l	
	(20 °C, pH 6,8)	

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Solubility (qualitative) solvent(s):	organic solvents	
	soluble	
Partitioning coefficient n-octanol/water (log Kow):	1,51	(measured)
	(25 °C)	
	Literature data.	
Vapour pressure:	2,04 hPa	(measured)
	(20 °C)	
	dynamic	
Relative density:	0,81	(other)
	(20 °C)	
	Literature data.	
Density:	0,81 g/cm ³	
	(20 °C)	
	Literature data.	
Relative vapour density (air):	3,03	(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 there is no indication of explosive properties.

Oxidizing properties

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

Flammable liquids

Sustained combustibility: not determined

Pyrophoric properties

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

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

Self-heating substances and mixtures

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

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

Formation of flammable gases:

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Forms no flammable gases in the presence of water.

Corrosion to metals

Corrosive effects to metal are not anticipated.

Other safety characteristics

pKA:

The substance does not dissociate.

Adsorption/water - soil:

KOC: 6,33; log KOC: 0,8

(calculated)

Surface tension:

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

Molar mass:

88,15 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:

Corrosive effects to metal are not anticipated.

Formation of

Remarks:

flammable gases:

Forms no flammable gases in the presence of water.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

No special precautions other than good housekeeping of chemicals.

10.5. Incompatible materials

Substances to avoid:

strong oxidizing agents

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10.6. Hazardous decomposition products

Hazardous decomposition products:

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

SECTION 11: Toxicological Information

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

Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion. Of low toxicity after short-term skin contact. In animal studies the substance is virtually nontoxic after short-term inhalation. The European Union (EU) has classified this substance as 'harmful' after inhalation.

Experimental/calculated data:

LD50 rat (oral): approx. 3.645 mg/kg (BASF-Test)

LC0 rat (by inhalation): 8,29 mg/l 8 h (IRT)

No mortality within the stated exposition time as shown in animal studies. The European Union (EU) has classified this substance as 'harmful'. The vapour was tested.

LD50 rabbit (dermal): 2.292 mg/kg (similar to OECD guideline 402)

Irritation

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: Corrosive. (BASF-Test)

Serious eye damage/irritation

rabbit: irreversible damage (BASF-Test)

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:

In vitro assay: Non-sensitizing. (In vitro skin sensitization test battery)

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity:

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A long-term carcinogenity study which does not meet the current requirements did not show a carcinogenic effect.

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:

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

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:

Repeated oral uptake of the substance did not cause substance-related effects.

Aspiration hazard

Some authorities consider isobutyl alcohol, n-primary alcohols and ketones with C3-C13 as "May be harmful if swallowed and enters airways"

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

Other relevant toxicity information

Has a degreasing effect on skin.

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SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Toxic to aquatic organisms based on long-term (chronic) toxicity study data.

Toxicity to fish:

LC50 (96 h) 530 mg/l, *Brachydanio rerio* (OECD 203; ISO 7346; 84/449/EWG, C.1, static)

Nominal concentration.

Aquatic invertebrates:

EC50 (48 h) 341 mg/l, *Daphnia magna* (Directive 79/831/EEC, static)

Nominal concentration.

Aquatic plants:

Toxic limit concentration (8 d) 260 mg/l (growth rate), *Scenedesmus quadricauda* (Algal growth inhibition test, static)

Nominal concentration. Literature data.

Microorganisms/Effect on activated sludge:

EC10 (3 h) 370 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

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

Chronic toxicity to fish:

No observed effect concentration (35 d) 10 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) 0,059 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

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

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Readily biodegradable (according to OECD criteria).

Elimination information:

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100 % CO₂ formation relative to the theoretical value (18 d) (OECD Guideline 310) (aerobic, activated sludge, domestic)

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

Assessment of stability in water:

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

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

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 slowly 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.

12.7. Other adverse effects

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

Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

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SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

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

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN1105
UN proper shipping name: PENTANOLS

Transport hazard class(es): 3, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: Tunnel code: D/E

RID

UN number or ID number: UN1105
UN proper shipping name: PENTANOLS

Transport hazard class(es): 3, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN1105
UN proper shipping name: PENTANOLS

Transport hazard class(es): 3, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Transport in inland waterway vessel

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Not evaluated

Sea transport

IMDG

UN number or ID number: UN 1105
UN proper shipping name: PENTANOLS

Transport hazard class(es): 3, EHSM
Packing group: III
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: EmS: F-E; S-D

Air transport

IATA/ICAO

UN number or ID number: UN 1105
UN proper shipping name: PENTANOLS

Transport hazard class(es): 3
Packing group: III
Environmental hazards: No Mark as dangerous for the environment is needed
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

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

14.6. Special precautions for user

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

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

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, 40, 75

Hazardous Incident Ordinance (Germany):

List entry in regulation: 1.3.2

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: 1.2.5.1

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: 1.2.5.2

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: 1.2.5.3

Classification applies for standard conditions of temperature and pressure.

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

List entry in regulation: E2

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: P5a

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: P5b

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: P5c

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)): (2) significantly water polluting. ID-No.: 18

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

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15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

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

Flam. Liq. 3
 Acute Tox. 5 (oral)
 Acute Tox. 5 (dermal)
 Eye Dam./Irrit. 1
 Skin Corr./Irrit. 2
 STOT SE 3 (irritating to respiratory system)
 Aquatic Chronic 2

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

Flam. Liq.	Flammable liquids
Acute Tox.	Acute toxicity
Skin Irrit.	Skin irritation
Eye Dam.	Serious eye damage
STOT SE	Specific target organ toxicity — single exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H411	Toxic 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

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Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

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

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Annex: Exposure Scenarios

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1. Distribution of substance

IS, SU10; ERC2; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

2. Formulation

IS, SU10; ERC2; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

3. Use in Coatings

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4. Use in Lubricants

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5. Use as an intermediate

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

6. Polymer processing

IS, SU10; ERC6d; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC13, PROC14

7. Use in Coatings

PW; ERC8a, ERC8c, ERC8d, ERC8f; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

8. Use in Lubricants

PW; ERC8a, ERC8d, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC6, PROC8a, PROC8b, PROC10, PROC14

9. Polymer processing

PW; ERC8a, ERC8c, ERC8d, ERC8f; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC14

10. Use in Coatings

C; ERC8a, ERC8c, ERC8d, ERC8f; PC1, PC9a, PC15, PC23, PC31

11. Consumer applications, Use in/as Flavouring agent(s), other consumer applications than fragrance

C; ERC8a, ERC8d; PC28, PC39

12. Use in pharmaceuticals, Consumer applications

ERC8a, ERC8d; PC29

1. Short title of exposure scenario

Distribution of substance

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IS, SU10; ERC2; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 1.1b.v1: ESVOC SpERC 1.1b.v1
Operational conditions	
Annual amount used in the EU	400.000 kg
Minimum emission days per year	300
Emission factor air	0,01 %
Emission factor water	0,001 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004105
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	65 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Use suitable eye protection.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³
Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be	

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applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,6728 mg/m ³
Risk Characterization Ratio (RCR)	0,050203
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario

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Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance	203,999996 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	

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Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local

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Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

2. Short title of exposure scenario

Formulation

IS, SU10; ERC2; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 2.2.v1: ESVOC SpERC 2.2.v1
Operational conditions	
Annual amount used in the EU	400.000 kg
Minimum emission days per year	300
Emission factor air	1 %
Emission factor water	0,5 %
Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	18.000 m ³ /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 (m ³ /d)	2.000 m ³ /d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,187375
Risk from environmental exposure is driven by soil.	

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Maximum amount of safe use	711,6 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Use suitable eye protection.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³
Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$

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Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,6728 mg/m ³
Risk Characterization Ratio (RCR)	0,050203
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with	

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substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal

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Guidance to Downstream Users

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

Contributing exposure scenario

Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
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Operational conditions

Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

Risk Management Measures

Supervision in place to check that the RMMs in place are being used correctly and OCs followed.

Personal measures have to be applied in case of potential exposure only.

Use suitable eye protection.

Avoid frequent and direct contact with substance.

Use suitable chemically resistant gloves.

Exposure estimate and reference to its source

Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal

Guidance to Downstream Users

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

Contributing exposure scenario

Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
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Operational conditions

Concentration of the substance	1-pentanol
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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

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Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

3. Short title of exposure scenario

Use in Coatings

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

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 4.3a.v1: ESVOC SpERC 4.3a.v1
Operational conditions	
Annual amount used in the EU	140.000 kg
Minimum emission days per year	300
Emission factor air	98 %
Emission factor water	2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10

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Dilution factor coast	100
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 v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,318567
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	146,5 kg/d
Risk from environmental exposure is driven by soil.	
Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Use suitable eye protection.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³

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Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,6728 mg/m ³
Risk Characterization Ratio (RCR)	0,050203
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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

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	controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance	203,999996 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be	

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applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m). Ensure that the task is not carried out overhead. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Regular inspection and maintenance of equipment and machines.	
Handle in a fume cupboard or under extract ventilation Ensure that task is semi-automated or automated. Ensure containment of the emission source	

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Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	24 mg/m ³
Risk Characterization Ratio (RCR)	0,328048
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.advancedreachtool.com	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing

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	Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C

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Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	

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Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

4. Short title of exposure scenario

Use in Lubricants

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

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 4.6a.v1: ESVOC SpERC 4.6a.v1
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	20
Emission factor air	0,15 %
Emission factor water	0,1 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Filtration
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP

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Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,00794
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	3.148,6 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ERC7: Use of functional fluid at industrial site
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	20
Emission factor air	5 %
Emission factor water	5 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,347319
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	72 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	

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Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Use suitable eye protection.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³
Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used	

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correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,6728 mg/m ³
Risk Characterization Ratio (RCR)	0,050203
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant	

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gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$

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Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the	

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RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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

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	working operations Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	51,4198 mg/m ³
Risk Characterization Ratio (RCR)	0,70284
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

5. Short title of exposure scenario

Use as an intermediate

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

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Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6a: Use of intermediate
Operational conditions	
Annual amount used in the EU	20.000 kg
Minimum emission days per year	20
Emission factor air	5 %
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
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,555361
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	180,1 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Use suitable eye protection.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³
Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,6728 mg/m ³
Risk Characterization Ratio (RCR)	0,050203
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	

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Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$

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Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	

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Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant	

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gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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6. Short title of exposure scenario

Polymer processing

IS, SU10; ERC6d; PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC13, PROC14

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC6d: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	20
Emission factor air	35 %
Emission factor water	0,005 %
Emission factor soil	0,025 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004259
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	5.870,1 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

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

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	Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Use suitable eye protection.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³
Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	3,6728 mg/m ³
Risk Characterization Ratio (RCR)	0,050203
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	

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Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment

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

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$

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Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Ensure that the task is being carried	

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out outside the breathing zone of a worker (distance head-product greater than 1m). Ensure that the task is not carried out overhead. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Regular inspection and maintenance of equipment and machines.	
Handle in a fume cupboard or under extract ventilation Ensure that task is semi-automated or automated. Ensure containment of the emission source	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	24 mg/m ³
Risk Characterization Ratio (RCR)	0,328048
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.advancedreachtool.com	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	

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Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	

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

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC14: Tableting, compression, extrusion, pelletisation, granulation Use domain: industrial
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$

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Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

7. Short title of exposure scenario

Use in Coatings

PW; ERC8a, ERC8c, ERC8d, ERC8f; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365

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Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,008601
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	3,2 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ERC8c: Widespread use leading to inclusion into/onto article (indoor)
Operational conditions	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	15 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004139
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	6,6 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Operational conditions	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,008601
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	3,2 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ERC8f: Widespread use leading to inclusion into/onto article (outdoor)
Operational conditions	
Annual amount used in the EU	50.000 kg

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Minimum emission days per year	365
Emission factor air	15 %
Emission factor water	1 %
Emission factor soil	0,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004139
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	6,6 kg/d
Risk from environmental exposure is driven by freshwater sediment.	
Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	

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Use suitable eye protection.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³
Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment

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

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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

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Product: **n-PENTANOL**

(ID no. 30036709/SDS_GEN_DE/EN)

Date of print 18.10.2025

Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be	

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applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	27,5463 mg/m ³
Risk Characterization Ratio (RCR)	0,376521
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local

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Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	27,5463 mg/m ³
Risk Characterization Ratio (RCR)	0,376521
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario

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Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m). Ensure that the task is not carried out overhead. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Regular inspection and maintenance of equipment and machines.	
Handle in a fume cupboard or under extract ventilation Ensure that task is semi-automated or automated. Ensure containment of the emission source	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	Advanced REACH Tool v1.5
	Worker - inhalation, long-term - local
Exposure estimate	24 mg/m ³
Risk Characterization Ratio (RCR)	0,328048
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.advancedreachtool.com	

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Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa

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Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Supervision in place to check that the RMMs in place are being used	

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correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	27,5463 mg/m ³
Risk Characterization Ratio (RCR)	0,376521
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

8. Short title of exposure scenario

Use in Lubricants

PW; ERC8a, ERC8d, ERC9a, ERC9b; PROC1, PROC2, PROC3, PROC4, PROC6, PROC8a, PROC8b, PROC10, PROC14

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

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Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004442
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,616729 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004442
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,616729 kg/d
Risk from environmental exposure is driven by freshwater sediment.	
Contributing exposure scenario	

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Use descriptors covered	ERC9a: Widespread use of functional fluid (indoor)	
Operational conditions		
Annual amount used in the EU	5.000 kg	
Minimum emission days per year	365	
Emission factor air	5 %	
Emission factor water	0 %	
Emission factor soil	0 %	
Receive Surf. Water (Flow Rate).	18.000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP	Municipal STP	
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0,004105	
	Risk from environmental exposure is driven by freshwater sediment.	
Maximum amount of safe use	0,667417 kg/d	
Risk from environmental exposure is driven by freshwater sediment.		

Contributing exposure scenario	
Use descriptors covered	ERC9b: Widespread use of functional fluid (outdoor)
<i>Operational conditions</i>	
Annual amount used in the EU	5.000 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

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Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004122
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,664685 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Use suitable eye protection.	
In case of potential exposure:, Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³
Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	

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

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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

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Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC6: Calendering operations Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with	

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substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	27,5463 mg/m ³

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Risk Characterization Ratio (RCR)	0,376521
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional

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Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	27,5463 mg/m ³
Risk Characterization Ratio (RCR)	0,376521
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC14: Tableting, compression, extrusion, pelletisation, granulation Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa

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Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

9. Short title of exposure scenario

Polymer processing

PW; ERC8a, ERC8c, ERC8d, ERC8f; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC14

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %

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Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004442
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,616729 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8c: Widespread use leading to inclusion into/onto article (indoor)
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	365
Emission factor air	15 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004108
	Risk from environmental exposure is driven by freshwater

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	sediment.
Maximum amount of safe use	0,666869 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004442
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,616729 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8f: Widespread use leading to inclusion into/onto article (outdoor)
Operational conditions	
Annual amount used in the EU	5.000 kg
Minimum emission days per year	365

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Emission factor air	15 %
Emission factor water	1 %
Emission factor soil	0,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004108
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	0,666869 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Use suitable eye protection.	
In case of potential exposure:, Use	

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suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0367 mg/m ³
Risk Characterization Ratio (RCR)	0,000502
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	18,3642 mg/m ³
Risk Characterization Ratio (RCR)	0,251014
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	

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

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	11,0185 mg/m ³
Risk Characterization Ratio (RCR)	0,150609
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
Operational conditions	

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Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	27,5463 mg/m ³
Risk Characterization Ratio (RCR)	0,376521
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure	

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only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³
Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC14: Tableting, compression, extrusion, pelletisation, granulation Use domain: professional
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Personal measures have to be applied in case of potential exposure only.	
Use suitable eye protection.	
Avoid frequent and direct contact with substance.	
Use suitable chemically resistant gloves.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	36,7284 mg/m ³

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Risk Characterization Ratio (RCR)	0,502029
Assessment method	Qualitative assessment
	Worker - dermal
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

10. Short title of exposure scenario

Use in Coatings

C; ERC8a, ERC8c, ERC8d, ERC8f; PC1, PC9a, PC15, PC23, PC31

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	10.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,00478
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	1,1 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

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Contributing exposure scenario	
Use descriptors covered	ERC8c: Widespread use leading to inclusion into/onto article (indoor)
Operational conditions	
Annual amount used in the EU	10.000 kg
Minimum emission days per year	365
Emission factor air	15 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004112
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	1,3 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Operational conditions	
Annual amount used in the EU	10.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %

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Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,00478
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	1,1 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ERC8f: Widespread use leading to inclusion into/onto article (outdoor)
Operational conditions	
Annual amount used in the EU	10.000 kg
Minimum emission days per year	365
Emission factor air	15 %
Emission factor water	1 %
Emission factor soil	0,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004112
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	1,3

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	kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PC1: Adhesives, Sealants
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 5\%$
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 45 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 30 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	250 cm ²
	Release area increases over time
Release duration	30 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	153,9865 mg/m ³
Risk Characterization Ratio (RCR)	0,70636
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC1: Adhesives, Sealants
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 30\%$
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min

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	Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 10 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per week Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	200 cm ²
	Release area increases over time
Release duration	10 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	8,4663 mg/m ³
Risk Characterization Ratio (RCR)	0,651253
	The exposure calculation is based on the mean concentration on the day of exposure.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC1: Adhesives, Sealants
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 5 %
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per month Relevant for inhalative exposure estimates
Room size	20 m ³
Ventilation rate per hour	0,6
body weight	65 kg
Spray duration	170 sec
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, long-term - systemic

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Exposure estimate	0,0174 mg/m ³
Risk Characterization Ratio (RCR)	0,001335
	The exposure calculation is based on the mean concentration on the day of exposure.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 15 %
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 20 min Relevant for inhalative exposure estimates
Room size	34 m ³
Ventilation rate per hour	1,5
body weight	65 kg
Spray duration	900 sec
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	56,4292 mg/m ³
Risk Characterization Ratio (RCR)	0,258849
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 2 %
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C

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Duration and Frequency of activity	Exposure duration: 70 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	2 uses per year Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	150000 cm ²
	Release area increases over time
Release duration	60 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	5,9655 mg/m ³
Risk Characterization Ratio (RCR)	0,458886
	The exposure calculation is based on the mean concentration on the day of exposure.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC15: Non-metal-surface treatment products.
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 15 %
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 20 min Relevant for inhalative exposure estimates
Room size	34 m ³
Ventilation rate per hour	1,5
body weight	65 kg
Spray duration	900 sec
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	56,4292 mg/m ³

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Risk Characterization Ratio (RCR)	0,258849
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC15: Non-metal-surface treatment products.
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 2\%$
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 70 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	2 uses per year Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	150000 cm ²
	Release area increases over time
Release duration	60 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	5,9655 mg/m ³
Risk Characterization Ratio (RCR)	0,458886
	The exposure calculation is based on the mean concentration on the day of exposure.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC15: Non-metal-surface treatment products.
Operational conditions	
Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 0,8\%$
Vapour pressure of the substance	203,999996 Pa

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during use	
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per year Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	20000 cm ²
	Release area increases over time
Release duration	60 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	0,0034 mg/m ³
Risk Characterization Ratio (RCR)	0,000265
	The exposure calculation is based on the mean concentration on the day of exposure.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC23: Leather tanning, dye, finishing, impregnation and care products.
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Room size	58 m ³
Ventilation rate per hour	0,5
body weight	65 kg
Spray duration	180 sec
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	2,5108 mg/m ³
Risk Characterization Ratio (RCR)	0,011517
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC31: Polishes and Wax Blends.
Operational conditions	
Concentration of the substance	1-pentanol Content: >= 0 % - <= 5 %
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 90 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	1 uses per month Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	220000 cm ²
	Release area increases over time
Release duration	90 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, long-term - systemic
Exposure estimate	7,1683 mg/m ³
Risk Characterization Ratio (RCR)	0,551407
	The exposure calculation is based on the mean concentration on the day of exposure.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC31: Polishes and Wax Blends.
Operational conditions	

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Concentration of the substance	1-pentanol Content: $\geq 0\%$ - $\leq 50\%$
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Room size	58 m ³
Ventilation rate per hour	0,5
body weight	65 kg
Spray duration	180 sec
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	2,5108 mg/m ³
Risk Characterization Ratio (RCR)	0,011517
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

11. Short title of exposure scenario

Consumer applications, Use in/as Flavouring agent(s), other consumer applications than fragrance C; ERC8a, ERC8d; PC28, PC39

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	150.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %

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Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,023777
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	3,5 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Operational conditions	
Annual amount used in the EU	150.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,023777
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	3,5

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

Contributing exposure scenario	
Use descriptors covered	PC28: Perfumes, Fragrances.
Operational conditions	
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C

Contributing exposure scenario	
Use descriptors covered	PC39: Cosmetics, personal care products.
Operational conditions	
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C

12. Short title of exposure scenario

Use in pharmaceuticals, Consumer applications

ERC8a, ERC8d; PC29

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
Operational conditions	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10

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Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,008601
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	3,2 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
Operational conditions	
Annual amount used in the EU	50.000 kg
Minimum emission days per year	365
Emission factor air	100 %
Emission factor water	100 %
Emission factor soil	20 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,008601
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	3,2 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario

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Use descriptors covered	PC29: Pharmaceuticals. In accordance to Article 2 (5a and 5b i and 5b ii) of the REACH Regulation (EC) No 1907/2006, use in medicinal products for humans as well as use as a food additive and as a flavoring agent is not subject to registration and is covered within the scopes of Directive 2001/83/EC, Directive 89/107/EEC, and Decision 1999/217/EC.
<i>Operational conditions</i>	
Vapour pressure of the substance during use	203,999996 Pa
Process temperature	20 °C
