

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.11  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Benzyl alcohol

Product Number : BA890

Brand : 6Science

Index-No. : 603-057-00-5

REACH No. : 01-2119492630-38-XXXX

CAS-No. : 100-51-6

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

Company 6Science LTD  
Unit 2 Welby Grange Business Park  
Welby Lane  
Melton Mowbary  
Leicestershire  
LE143EF  
United Kingdom

Telephone : +44 (0)115 7790196

E-mail address : info@6science.co.uk

### 1.4 Emergency telephone number

Emergency Phone # : +44 (0)870 8200418 (CHEMTREC)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567**

Acute toxicity, (Category 4)	H302: Harmful if swallowed.
Acute toxicity, (Category 4)	H332: Harmful if inhaled.
Eye irritation, (Category 2)	H319: Causes serious eye irritation.
Skin sensitisation, (Sub-category 1B)	H317: May cause an allergic skin reaction.

## 2.2 Label elements

### Labelling according Regulation (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Pictogram



Signal Word	Warning
Hazard Statements	
H302 + H332	Harmful if swallowed or if inhaled.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
Precautionary Statements	
P261	Avoid breathing mist or vapours.
P280	Wear protective gloves/ eye protection/ face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard Statements	none

### Reduced Labelling (<= 125 ml)

Pictogram



Signal Word	Warning
Hazard Statements	
H317	May cause an allergic skin reaction.
Precautionary Statements	
P261	Avoid breathing mist or vapours.
P302 + P352	IF ON SKIN: Wash with plenty of water.
Supplemental Hazard Statements	none

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : Benzenemethanol

Formula : C<sub>7</sub>H<sub>8</sub>O  
Molecular weight : 108.14 g/mol  
CAS-No. : 100-51-6  
EC-No. : 202-859-9  
Index-No. : 603-057-00-5

Component		Classification	Concentration
<b>Benzyl alcohol</b>			
CAS-No.	100-51-6	Acute Tox. 4; Eye Irrit. 2; Skin Sens. 1B; H302, H332, H319, H317	<= 100 %
EC-No.	202-859-9		
Index-No.	603-057-00-5		

For the full text of the H-Statements mentioned in this Section, see Section 16.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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

Carbon oxides

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

## **5.3 Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## **5.4 Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## **SECTION 6: Accidental release measures**

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

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb® ). Dispose of properly. Clean up affected area.

### **6.4 Reference to other sections**

For disposal see section 13.

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

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

#### **Storage conditions**

Tightly closed.

hygroscopic

#### **Storage class**

Storage class (TRGS 510): 10: Combustible liquids

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

#### **Personal protective equipment**

##### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

##### **Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Full contact

Material: butyl-rubber

Minimum layer thickness: 0.7 mm

Break through time: 480 min

Material tested: Butoject® (KCL 898)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

Splash contact

Material: Viton/Æ

Minimum layer thickness: 0.7 mm

Break through time: 120 min

##### **Body Protection**

protective clothing

##### **Respiratory protection**

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

##### **Control of environmental exposure**

Do not let product enter drains.

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## **SECTION 9: Physical and chemical properties**

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

- |                   |                   |
|-------------------|-------------------|
| a) Physical state | liquid            |
| b) Color          | No data available |

c) Odor	No data available
d) Melting point/freezing point	Melting point/ range: -16 - -13 °C - lit.
e) Initial boiling point and boiling range	205 °C
f) Flammability (solid, gas)	No data available
g) Upper/lower flammability or explosive limits	Upper explosion limit: 13 %(V) - Information taken from reference works and the literature. Lower explosion limit: 1.3 %(V) - Information taken from reference works and the literature.
h) Flash point	101 °C - DIN 51758
i) Autoignition temperature	No data available
j) Decomposition temperature	No data available
k) pH	No data available
l) Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
m) Water solubility	No data available
n) Partition coefficient: n-octanol/water	log Pow: 1.05 at 20 °C - Bioaccumulation is not expected.
o) Vapor pressure	No data available
p) Density	1.045 g/cm <sup>3</sup> at 25 °C - lit.
Relative density	No data available
q) Relative vapour density	No data available
r) Particle characteristics	No data available
s) Explosive properties	Not classified as explosive.
t) Oxidizing properties	none

## 9.2 Other safety information

Dissociation constant 15.4 at 25 °C

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .  
Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

Strong heating.

### **10.5 Incompatible materials**

No data available

### **10.6 Hazardous decomposition products**

In the event of fire: see section 5

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

Acute toxicity estimate Oral - 1,200 mg/kg

(Acute toxicity estimate)

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

LC50 Inhalation - 4 h - > 4.178 mg/l - dust/mist

(OECD Test Guideline 403)

Dermal: No data available

#### **Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

#### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: irritating

(OECD Test Guideline 405)

#### **Respiratory or skin sensitization**

Open epicutaneous test - Guinea pig

Result: positive

The product is a skin sensitizer, sub-category 1B.

(OECD Test Guideline 429)

Remarks: (Regulation (EC) No 1272/2008, Annex VI)

#### **Germ cell mutagenicity**

Test Type: Micronucleus test

Species: Mouse

Cell type: Red blood cells (erythrocytes)

Application Route: Intraperitoneal

Method: OECD Test Guideline 474

Result: negative

#### **Carcinogenicity**

No data available

#### **Reproductive toxicity**

No data available

#### **Specific target organ toxicity - single exposure**

No data available

#### **Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information****Endocrine disrupting properties****Product:**

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Central nervous system depression

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish	static test LC50 - Pimephales promelas (fathead minnow) - 460 mg/l - 96 h (US-EPA)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - 230 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 700 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 51 mg/l - 21 d (OECD Test Guideline 211)

**12.2 Persistence and degradability**

Biodegradability	aerobic - Exposure time 14 d Result: 92 - 96 % - Readily biodegradable. (OECD Test Guideline 301C)
Biochemical Oxygen Demand (BOD)	1,550 mg/g Remarks: (Lit.)
Theoretical oxygen demand	2,515 mg/g Remarks: (IUCLID)
Ratio BOD/ThBOD	62 % Remarks: (Lit.)

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at



## 12.6 Endocrine disrupting properties

## Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Notice Directive on waste 2008/98/EC.

### 14.1 UN number

ADR/RID: - IMDG: - IATA: 3334

ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Aviation regulated liquid, n.o.s. (Benzyl alcohol)

ADR/RID: - IMDG: - IATA: 9

## ADR/RID: - IMDG: - IATA: III

ADR/RID: no                      IMDG Marine pollutant: no                      IATA: no

No data available

Further information : No data available

Not applicable for product as supplied.

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **Authorisations and/or restrictions on use**

### **Other regulations**

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

## **15.2 Chemical safety assessment**

A Chemical Safety Assessment has been carried out for this substance.

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## **SECTION 16: Other information**

### **Full text of H-Statements**

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

### **Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. 6Science LTD shall not be held liable for any damage resulting from handling or from contact with the above product.

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## Annex: Exposure scenario

### Identified uses:

#### Use: Industrial use

<b>SU 3:</b> Industrial uses: Uses of substances as such or in preparations at industrial sites
<b>SU 3, SU9, SU 10:</b> Industrial uses: Uses of substances as such or in preparations at industrial sites, Manufacture of fine chemicals, Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)
<b>PC19:</b> Intermediate <b>PC21:</b> Laboratory chemicals <b>PC39:</b> Cosmetics, personal care products
<b>PROC1:</b> Use in closed process, no likelihood of exposure <b>PROC2:</b> Use in closed, continuous process with occasional controlled exposure <b>PROC3:</b> Use in closed batch process (synthesis or formulation) <b>PROC4:</b> Use in batch and other process (synthesis) where opportunity for exposure arises <b>PROC5:</b> Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) <b>PROC8a:</b> Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities <b>PROC8b:</b> Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities <b>PROC9:</b> Transfer of substance or preparation into small containers (dedicated filling line, including weighing) <b>PROC10:</b> Roller application or brushing <b>PROC14:</b> Production of preparations or articles by tableting, compression, extrusion, pelletisation <b>PROC15:</b> Use as laboratory reagent
<b>ERC1, ERC2, ERC4, ERC6a, ERC6b:</b> Manufacture of substances, Formulation of preparations, Industrial use of processing aids in processes and products, not becoming part of articles, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids

#### Use: Professional use

<b>SU 22:</b> Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<b>SU 22:</b> Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
<b>PC21:</b> Laboratory chemicals <b>PC39:</b> Cosmetics, personal care products
<b>PROC15:</b> Use as laboratory reagent
<b>ERC2, ERC6a, ERC6b, ERC8a, ERC8d:</b> Formulation of preparations, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids, Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

#### Use: Consumer use

<b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
<b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
<b>PC39:</b> Cosmetics, personal care products
<b>ERC8a, ERC8d:</b> Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems

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## 1. Short title of Exposure Scenario: Industrial use

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Main User Groups : **SU 3**  
Sectors of end-use : **SU 3, SU9, SU 10**  
Chemical product category : **PC19, PC21, PC39**  
Process categories : **PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC14, PROC15**  
Environmental Release Categories : **ERC1, ERC2, ERC4, ERC6a, ERC6b:**

## 2. Exposure scenario

### 2.1 Contributing scenario controlling environmental exposure for: ERC1, SpERC ESVOC 1

#### Amount used

Annual amount per site : 100 t

#### Environment factors not influenced by risk management

Dilution Factor (River) : 10

Dilution Factor (Coastal Areas) : 100

#### Other given operational conditions affecting environmental exposure

Number of emission days per year : 300

Emission or Release Factor: Air : 0.01 %

Emission or Release Factor: : 1 %

Water

Emission or Release Factor: Soil : 0.01 %

#### Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m3/d

Effectiveness (of a measure) : 87.4 %

### 2.1 Contributing scenario controlling environmental exposure for: ERC2

#### Amount used

Annual amount per site : 1000 t

#### Environment factors not influenced by risk management

Dilution Factor (River) : 10

Dilution Factor (Coastal Areas) : 100

#### Other given operational conditions affecting environmental exposure

Number of emission days per year : 100  
Emission or Release Factor: Air : 0.25 %  
Emission or Release Factor: Water : 0.5 %  
Emission or Release Factor: Soil : 0.01 %

**Conditions and measures related to municipal sewage treatment plant**

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment plant effluent : 2,000 m3/d  
Effectiveness (of a measure) : 87.4 %

**2.1 Contributing scenario controlling environmental exposure for: ERC4, SpERC ESVOC 3**

**Amount used**

Annual amount per site : 500 t

**Environment factors not influenced by risk management**

Dilution Factor (River) : 10  
Dilution Factor (Coastal Areas) : 100

**Other given operational conditions affecting environmental exposure**

Number of emission days per year : 300  
Emission or Release Factor: Air : 0.001 %  
Emission or Release Factor: Water : 0.001 %  
Emission or Release Factor: Soil : 0 %

**Conditions and measures related to municipal sewage treatment plant**

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment plant effluent : 2,000 m3/d  
Effectiveness (of a measure) : 87.4 %

**2.1 Contributing scenario controlling environmental exposure for: ERC6a**

**Amount used**

Annual amount per site : 100 t

**Environment factors not influenced by risk management**

Dilution Factor (River) : 10  
Dilution Factor (Coastal Areas) : 100

**Other given operational conditions affecting environmental exposure**

Number of emission days per year : 20

**Conditions and measures related to municipal sewage treatment plant**

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment plant effluent : 2,000 m3/d  
Effectiveness (of a measure) : 87.4 %

**2.1 Contributing scenario controlling environmental exposure for: ERC6b, SpERC ESVOC 8**

**Amount used**

Annual amount per site : 200 t

**Environment factors not influenced by risk management**

Dilution Factor (River) : 10

Dilution Factor (Coastal Areas) : 100

**Other given operational conditions affecting environmental exposure**

Number of emission days per year : 20

Emission or Release Factor: Air : 30 %

Emission or Release Factor: Water : 0.01 %

Emission or Release Factor: Soil : 0 %

**Conditions and measures related to municipal sewage treatment plant**

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m<sup>3</sup>/d

Effectiveness (of a measure) : 87.4 %

**2.6 Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC4, PROC9, PROC14, PROC15**

**Product characteristics**

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical Form (at time of use) : Low volatile liquid

Process Temperature : < 69 °C

**Frequency and duration of use**

Frequency of use : 8 hours/day

**Other operational conditions affecting workers exposure**

Outdoor / Indoor : Indoor without local exhaust ventilation (LEV)

**Organisational measures to prevent /limit releases, dispersion and exposure**

Covers daily exposures up to 8 hours.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.

**2.7 Contributing scenario controlling worker exposure for: PROC5, PROC8a, PROC8b, PROC10**

**Product characteristics**

Concentration of the Substance in Mixture/Article : Covers the percentage of the substance in the product up to 100 % (unless stated differently).

Physical Form (at time of use) : Low volatile liquid

Process Temperature : < 69 °C

**Frequency and duration of use**

Frequency of use : 8 hours/day

**Other operational conditions affecting workers exposure**

Outdoor / Indoor : Indoor without local exhaust ventilation (LEV)

**Organisational measures to prevent /limit releases, dispersion and exposure**

Covers daily exposures up to 8 hours.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection., Wear suitable gloves tested to EN374.

**3. Exposure estimation and reference to its source**

## Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR*
ERC1	EUSES		All compartments			< 1
ERC2	EUSES		All compartments			< 1
ERC4	EUSES		All compartments			< 1
ERC6a	EUSES		All compartments			< 1
ERC6b	EUSES		All compartments			< 1

## Workers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value	Level of Exposure	RCR*
PROC1	ECETOC TRA				< 1
PROC2	ECETOC TRA				< 1
PROC3	ECETOC TRA				< 1
PROC4	ECETOC TRA				< 1
PROC9	ECETOC TRA				< 1
PROC14	ECETOC TRA				< 1
PROC15	ECETOC TRA				< 1

\*Risk characterisation ratio

PROC5	ECETOC TRA, modified				< 1
PROC8a	ECETOC TRA, modified				< 1
PROC8b	ECETOC TRA, modified				< 1
PROC10	ECETOC TRA, modified				< 1

\*Risk characterisation ratio



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## 1. Short title of Exposure Scenario: Professional use

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Main User Groups : **SU 22**  
Sectors of end-use : **SU 22**  
Chemical product category : **PC21, PC39**  
Process categories : **PROC15**  
Environmental Release Categories : **ERC2, ERC6a, ERC6b, ERC8a, ERC8d:**

## 2. Exposure scenario

### 2.1 Contributing scenario controlling environmental exposure for: ERC2

#### Amount used

Annual amount per site : 1000 t

#### Environment factors not influenced by risk management

Dilution Factor (River) : 10

Dilution Factor (Coastal Areas) : 100

#### Other given operational conditions affecting environmental exposure

Number of emission days per year : 100

Emission or Release Factor: Air : 0.25 %

Emission or Release Factor: : 0.5 %

Water

Emission or Release Factor: Soil : 0.01 %

#### Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment : 2,000 m<sup>3</sup>/d

plant effluent

Effectiveness (of a measure) : 87.4 %

### 2.1 Contributing scenario controlling environmental exposure for: ERC6a

#### Amount used

Annual amount per site : 100 t

#### Environment factors not influenced by risk management

Dilution Factor (River) : 10

Dilution Factor (Coastal Areas) : 100

#### Other given operational conditions affecting environmental exposure

Number of emission days per year : 20

year

**Conditions and measures related to municipal sewage treatment plant**

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment : 2,000 m<sup>3</sup>/d  
plant effluent  
Effectiveness (of a measure) : 87.4 %

**2.1 Contributing scenario controlling environmental exposure for: ERC6b, SpERC ESVOC  
8****Amount used**

Annual amount per site : 200 t

**Environment factors not influenced by risk management**

Dilution Factor (River) : 10  
Dilution Factor (Coastal Areas) : 100

**Other given operational conditions affecting environmental exposure**

Number of emission days per : 20  
year  
Emission or Release Factor: Air : 30 %  
Emission or Release Factor: : 0.01 %  
Water  
Emission or Release Factor: Soil : 0 %

**Conditions and measures related to municipal sewage treatment plant**

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment : 2,000 m<sup>3</sup>/d  
plant effluent  
Effectiveness (of a measure) : 87.4 %

**2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d****Amount used**

Annual amount per site : 1000 t

**Environment factors not influenced by risk management**

Dilution Factor (River) : 10  
Dilution Factor (Coastal Areas) : 100

**Other given operational conditions affecting environmental exposure**

Number of emission days per : 365  
year

**Conditions and measures related to municipal sewage treatment plant**

Type of Sewage Treatment Plant : Municipal sewage treatment plant  
Flow rate of sewage treatment : 2,000 m<sup>3</sup>/d  
plant effluent  
Effectiveness (of a measure) : 87.4 %

**2.5 Contributing scenario controlling worker exposure for: PROC15****Product characteristics**

Concentration of the Substance in : Covers the percentage of the substance in the product  
Mixture/Article up to 100 % (unless stated differently).  
Physical Form (at time of use) : Low volatile liquid  
Process Temperature : < 69 °C

**Frequency and duration of use**

Frequency of use : 8 hours/day

**Other operational conditions affecting workers exposure**

Outdoor / Indoor : Indoor without local exhaust ventilation (LEV)

**Organisational measures to prevent /limit releases, dispersion and exposure**

Covers daily exposures up to 8 hours.

**Conditions and measures related to personal protection, hygiene and health evaluation**

Use suitable eye protection.

**3. Exposure estimation and reference to its source**

**Environment**

<b>Contributing Scenario</b>	<b>Exposure Assessment Method</b>	<b>Specific conditions</b>	<b>Compartment</b>	<b>Value</b>	<b>Level of Exposure</b>	<b>RCR*</b>
ERC2	EUSES		All compartments			< 1
ERC6a	EUSES		All compartments			< 1
ERC6b	EUSES		All compartments			< 1
ERC8a	EUSES		All compartments			< 1

**Workers**

<b>Contributing Scenario</b>	<b>Exposure Assessment Method</b>	<b>Specific conditions</b>	<b>Value</b>	<b>Level of Exposure</b>	<b>RCR*</b>
PROC15	ECETOC TRA				< 1

\*Risk characterisation ratio

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## 1. Short title of Exposure Scenario: Consumer use

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Main User Groups : **SU 21**  
Sectors of end-use : **SU 21**  
Chemical product category : **PC39**  
Environmental Release Categories : **ERC8a, ERC8d:**

## 2. Exposure scenario

### 2.1 Contributing scenario controlling environmental exposure for: ERC8a, ERC8d

#### Amount used

Annual amount per site : 1000 t

#### Environment factors not influenced by risk management

Dilution Factor (River) : 10

Dilution Factor (Coastal Areas) : 100

#### Other given operational conditions affecting environmental exposure

Number of emission days per year : 365

#### Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment plant effluent : 2,000 m<sup>3</sup>/d

Effectiveness (of a measure) : 87.4 %

## 3. Exposure estimation and reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	Level of Exposure	RCR*
ERC8a	EUSES		All compartments			< 1

## 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building, Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).