

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.11.2025

Version number 8 (replaces version 7)

Revision: 04.11.2025

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

- **1.1 Product identifier**
- **Creation date** 28.10.2010
- **Trade name:** Chloroform (stab./Ethanol)
- **Article number:** 0348
- **Registration number**  
A registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration.  
01-2119486657-20-XXXX
- **UFI:** 2U30-30RC-N00C-U4HV
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**  
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites  
SU9 Manufacture of fine chemicals  
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU24 Scientific research and development
- **Product category**  
PC19 Intermediate  
PC21 Laboratory chemicals  
PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents  
PC29 Pharmaceuticals  
PC40 Extraction agents
- **Process category**  
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.  
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions  
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition  
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities  
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities  
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)  
PROC15 Use as laboratory reagent
- **Environmental release category**  
ERC1 Manufacture of the substance  
ERC6a Use of intermediate  
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
- **Application of the substance / the mixture**  
Chemical for research, development, manufacturing, laboratory chemical for analysis.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Biosolve Chimie  
20 Rue Roger Husson, 57260 Dieuze, France  
Tel: +33 3 878 675 80/81/82/83/84/85  
Email: info@biosolvechimie.com

Biosolve B.V.  
Kerkhofstraat 21, 5554HG Valkenswaard, the Netherlands.

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**Trade name: Chloroform (stab./Ethanol)**

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Tel: +31-(0)40-2071300

Fax: +31-(0)40-2048537

Email: [info@biosolve-chemicals.com](mailto:info@biosolve-chemicals.com)

· **Further information obtainable from:** Product safety department.

· **1.4 Emergency telephone number:**

Contact list of appointed bodies for information relating to emergency health response, according to Art. 45(1) Reg. (EC) No 1272/2008.

See at <https://poisoncentres.echa.europa.eu/appointed-bodies>

Help desk: <http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks>.

For more information see section 16.

## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**


GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361d Suspected of damaging the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**


GHS06



GHS08

· **Signal word Danger**

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#### · Hazard statements

- H302 Harmful if swallowed.
- H331 Toxic if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.

#### · Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 IF SWALLOWED: 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.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Additional information:

For use in industrial installations only.

#### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

#### · 3.1 Substances

##### · CAS No. Description

67-66-3 chloroform

##### · Identification number(s)

· **EC number:** 200-663-8

· **Index number:** 602-006-00-4

#### · 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

#### · Dangerous components:

CAS: 67-66-3 EINECS: 200-663-8 Index number: 602-006-00-4 Reg.nr.: 01-2119486657-20-XXXX	chloroform ☠ Acute Tox. 3, H331; ☠ Carc. 2, H351; Repr. 2, H361d; STOT RE 1, H372; ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319, EUH301	75-100%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	Ethyl alcohol ☠ Flam. Liq. 2, H225; ☠ Eye Irrit. 2, H319	≤2.5%

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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

##### · 4.1 Description of first aid measures

##### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

##### · After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

##### · After skin contact: Immediately wash with water and soap and rinse thoroughly.

##### · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

##### · After swallowing: Call for a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

#### SECTION 5: Firefighting measures

##### · 5.1 Extinguishing media

##### · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

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

During heating or in case of fire poisonous gases are produced.

##### · 5.3 Advice for firefighters

##### · Protective equipment: Mouth respiratory protective device.

#### SECTION 6: Accidental release measures

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

Mount respiratory protective device.

##### · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

##### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

##### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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### SECTION 7: Handling and storage

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

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

##### · Storage:

##### · Requirements to be met by storerooms and receptacles:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**
**CAS: 67-66-3 chloroform**

IOELV	Long-term value: 10 mg/m <sup>3</sup> , 2 ppm
	Skin

##### · DNELs

67-66-3

Worker DNEL, acute Systemic effects inhalation 333 mg/m<sup>3</sup>

Worker DNEL, longterm Systemic effects inhalation 2,5 mg/m<sup>3</sup>

Worker DNEL, longterm Systemic effects dermal 0,94 mg/kg Body weight

Worker DNEL, longterm Local effects inhalation 2,5 mg/m<sup>3</sup>

Consumer DNEL, longterm Systemic effects inhalation 0,18 mg/m<sup>3</sup>

##### · PNECs

67-66-3

PNEC Fresh water 0,146 mg/l

PNEC Fresh water sediment 0,45 mg/kg

PNEC Marine water 0,015 mg/l

PNEC Marine sediment 0,09 mg/kg

PNEC Aquatic intermittent release 0,133 mg/l

PNEC Soil 0,56 mg/kg

PNEC Sewage treatment plant 0,048 mg/l

· **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

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· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Full contact:

Glove material: Viton (R)

Glove thickness: 0,70 mm

Break through time: > 480 min

Splash contact:

Glove material: butyl-rubber

Glove thickness: 0,7 mm

Break through time: > 10 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**

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

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Safety glasses

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Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Environmental exposure controls**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### SECTION 9: Physical and chemical properties

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

##### · General Information

· **Physical state**

Liquid

· **Colour:**

Colourless

· **Odour:**

Chlorine-like

· **Odour threshold:**

84,9 - 201,5 ppm

· **Melting point/freezing point:**

-63 °C

· **Boiling point or initial boiling point and boiling range**

62 °C

· **Flammability**

Product is not flammable.

· **Lower and upper explosion limit**

· **Lower:**

Not classified as explosive

· **Upper:**

Not classified as explosive

· **Flash point:**

does not flash

· **Auto-ignition temperature:**

982 °C

· **Decomposition temperature:**

Distillable in an undecomposed state at normal pressure.

· **pH**

Insoluble in water, thus, pH cannot be measured.

· **Viscosity:**

· **Dynamic at 20 °C:**

0.56 mPas

· **Solubility**

· **water at 20 °C:**

8 g/l

· **Partition coefficient n-octanol/water (log value)**

2

· **Vapour pressure at 20 °C:**

210 hPa

· **Density and/or relative density**

· **Density at 20 °C:**

1.47 g/cm<sup>3</sup>

· **Relative density**

1.492 at 25 °C

· **Vapour density**

No data available

#### · 9.2 Other information

· **Appearance:**

· **Form:**

Fluid

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· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	1.0 %
· <b>Solids content:</b>	0.0 %
· <b>Molecular weight</b>	119 g/mol
· <b>Change in condition</b>	
· <b>Softening point/range</b>	
· <b>Oxidising properties</b>	Non oxidizer.
· <b>Evaporation rate</b>	No data available
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void
· <b>Molecular Weight</b>	119.38
· <b>Molecular Formula</b>	CHCl <sub>3</sub>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

EU

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### SECTION 11: Toxicological information

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

##### Acute toxicity

Harmful if swallowed.

Toxic if inhaled.

##### LD/LC50 values relevant for classification:

CAS: 67-66-3 chloroform

Oral LD50 908 mg/kg (rat)

Dermal LD50 75 mg/kg (rat)

Inhalative LC50/4 h 3 mg/l (ATE)

##### Primary irritant effect:

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity Suspected of damaging the unborn child.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

#### 11.2 Information on other hazards

##### Endocrine disrupting properties

None of the ingredients is listed.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

#### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

##### Additional ecological information:

##### General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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Danger to drinking water if even extremely small quantities leak into the ground.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
HP7	Carcinogenic
HP10	Toxic for reproduction

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN1888

· **14.2 UN proper shipping name**

· **ADR**

UN1888 CHLOROFORM solution

· **IMDG, IATA**

CHLOROFORM solution

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

6.1 (T1) Toxic substances.

· **Label**

6.1

· **IMDG, IATA**



· **Class**

6.1 Toxic substances.

· **Label**

6.1

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· 14.4 Packing group	III
· ADR, IMDG, IATA	
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Toxic substances.
· Hazard identification number (Kemler code):	60
· EMS Number:	F-A,S-A
· Segregation groups	(SGG10) Liquid halogenated hydrocarbons
· Stowage Category	A
· Stowage Code	SW2 Clear of living quarters.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	2
· Tunnel restriction code	E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category H2 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 32

· Regulation (EU) No 649/2012

CAS: 67-66-3 chloroform

Annex I Part I

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

EUH301 For use in industrial installations only.

· **Department issuing SDS:** Product safety department

· **Contact:**

Austria Vergiftungsinformationszentrale (VIZ) (+43) 1 406 43 43

Belgium Centre Antipoisons (+32) 070 245 245

Antigifcentrum 070 245 245 (+32)

Bulgaria Национален токсикологичен информационен център

Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов" (+359) 2 9154 233

Croatia Centar za kontrolu otrovanja (+385) 01 2348 342

Cyprus Υπουργείο Εργασίας, Πρόνοιας και Κοινωνικών Ασφαλίσεων

Τμήμα Επιθεώρησης Εργασίας 1401

Czech Republic Toxikologické informační středisko (+420) 224 919 293, +420) 224 915 402

Denmark Giftlinjen: +45 8212 1212

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*France ORFILA (INRS) : + 33 (0)1 45 42 59 59*
*Centres Antipoison et de Toxicovigilance*
*ANGERS: 02 41 48 21 21*
*BORDEAUX: 05 56 96 40 80*
*LILLE: 0800 59 59 59*
*LYON: 04 72 11 69 11*
*MARSEILLE: 04 91 75 25 25*
*NANCY: 03 83 22 50 50*
*PARIS: 01 40 05 48 48*
*STRASBOURG: 03 88 37 37 37*
*TOULOUSE: 05 61 77 74 47*
*Germany Giftnotruf der Charité, Berlin: 030/19240*
*Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord) :0551/19 240*
*Informationszentrale gegen Vergiftungen Zentrum für Kinderheilkunde Universitätsklinikum Bonn: 0228/19240*
*Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen: 0361/730 730*
*Informations- und Beratungszentrum für Vergiftungsfälle Klinik für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes: 06841/19240*
*Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsmedizin der Johannes Gutenberg-Universität Mainz: 06131/19240*
*Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum: 0761/19240*
*Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240*
*Great Britain Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111*
*Greece Κέντρο Δηλητηριάσεων (+30) 2107793777*
*Hungary Országos Kémiai Biztonsági Intézet (OKBI) +(36)-80-201-199*
*Iceland LANDSPÍTALI - THE NATIONAL UNIVERSITY HOSPITAL Tel. (+354) 543 1000*
*Ireland National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)  
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)*
*Italy Istituto Superiore di Sanità (ISS) +390649906140*
*CAV "Ospedale Pediatrico Bambino Gesù" – Roma Tel. (+39) 06.6859.3726*
*CAV "Azienda Ospedaliera Università di Foggia" – Foggia Tel. 800.183.459*
*CAV "Azienda Ospedaliera A. Cardarelli" – Napoli Tel. (+39) 081.545.3333*

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Revision: 04.11.2025

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CAV Policlinico "Umberto I" – Roma Tel. (+39) 06.4997.8000

CAV Policlinico "A. Gemelli" – Roma Tel. (+39) 06.305.4343

CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica – Firenze Tel. (+39) 055.794.7819

CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. (+39) 0382.24.444

CAV Ospedale Niguarda – Milano Tel. (+39) 02.66.1010.29

CAV Azienda Ospedaliera Papa Giovanni XXIII – Bergamo Tel. 800.88.33.00

CAV Centro antiveneni Veneto – Verona Tel. 800.011.858

Latvia Latvijas Vides, ģeoloģijas un meteoroloģijas centrs (+371) 67032600

Lithuania Apsinuodijimų informacijos biuras +370 (5) 2362052

Luxembourg Antigifcentrum / Centre antipoisons (+352) 8002 5500

The Netherlands Nationaal Vergiftigingen Informatie +31 (0)88 755 8000

Norway Giftinformasjonene 22 59 13 00

Poland Biuro do spraw Substancji Chemicznych +48 42 2538 400

Portugal Centro de informação antivenenos 800 250 250

Romania Institutul Național de Sănătate Publică +40213183606

Slovakia Národné toxikologické informačné centrum (NTIC) (+421) 2 5477 4166

Slovenia Urad Republike Slovenije za kemikalije +38614006051

Spain Instituto Nacional de Toxicología y Ciencias Forenses (INTCF) (+34) 91 562 04 20

Sweden Giftinformationscentralen (+46) 10 456 6700

Switzerland Tox Info Suisse 24-h-Notfallnummer: 145 (aus dem Ausland: +41 44 251 51 51) Auskunft: +41 44 251 66 66

· **Date of previous version:** 12.07.2023

· **Version number of previous version:** 7

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 ATE: Acute toxicity estimate values  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 3: Acute toxicity – Category 3  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 2: Reproductive toxicity – Category 2  
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
 . \* **Data compared to the previous version altered.**

EU

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### **Annex: Exposure scenario**

#### **· Short title of the exposure scenario**

#### **· Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU24 Scientific research and development

#### **· Product category**

PC19 Intermediate

PC21 Laboratory chemicals

PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

PC29 Pharmaceuticals

PC40 Extraction agents

#### **· Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

#### **· Environmental release category**

ERC1 Manufacture of the substance

ERC6a Use of intermediate

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

#### **· Notes** The product is intended for professional use.

#### **· Description of the activities / processes covered in the Exposure Scenario**

67-66-3

1. Industrial use Reagent for analysis)

#### **Sectors of end-use**

SU 3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU9 Manufacture of fine chemicals

SU 10 Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)

#### **Chemical product category**

PC19 Intermediate

PC21 Laboratory chemicals

#### **Process categories**

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC8a Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at non-dedicated facilities

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*PROC8b Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities*

*PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)*

*PROC15 Use as laboratory reagent*

*Environmental Release Categories*

*ERC1 Manufacture of substances*

*ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)*

*2. Professional use Reagent for analysis)*

*Sectors of end-use*

*SU 22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)*

*Chemical product category*

*PC21 Laboratory chemicals*

*Process categories*

*PROC15 Use as laboratory reagent*

*Environmental Release Categories*

*ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)*

*ERC8a Wide dispersive indoor use of processing aids in open systems*

· **Conditions of use**

· **Duration and frequency** Frequency of use:

· **Worker**

66-67-3

*Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC15*

*Product characteristics*

*Concentration of the Substance in Mixture/Article 100 %* Covers the percentage of the substance in the product up to

*Physical Form (at time of use) High volatile liquid*

*Frequency and duration of use*

*Frequency of use 8 hours/day*

*Other operational conditions affecting workers exposure*

*Outdoor / Indoor Indoor with local exhaust ventilation (LEV)*

*Outdoor / Indoor Outdoor*

*Technical conditions and measures*

*Provide extraction ventilation at points where emissions occur.*

*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*

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Wear suitable gloves (tested to EN374), coverall and eye protection. Wear respiratory protection.

#### Environment

##### Indoor use

Do not allow contact to soil, surface water and ground water.

67-66-3

Contributing scenario controlling environmental exposure for: ERC1

##### Amount used

Daily amount per site (Msafe) 829.589 kg

##### 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

Emission or Release Factor: Air 0,07 %

Emission or Release Factor: Water 0,006 %

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

Type of Sewage Treatment Plant Municipal sewage treatment plant Flow rate of sewage treatment 10.000 m<sup>3</sup>/d plant effluent

Percentage removed from waste 85,6 % water

Sludge Treatment Sewage sludge should not be applied to natural soils.

##### Conditions and measures related to external treatment of waste for disposal

Disposal methods All liquid and solid waste should be incinerated.

67-66-3

Contributing scenario controlling environmental exposure for: ERC6a

##### Amount used

Daily amount per site (Msafe) 4.800 kg

##### 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 0,5 %

Emission or Release Factor: Water 0,7 %

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

Type of Sewage Treatment Plant Municipal sewage treatment plant Flow rate of sewage treatment 10.000 m<sup>3</sup>/d plant effluent

Percentage removed from waste 85,6 % water

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*Sludge Treatment* Sewage sludge should not be applied to natural soils.

*Conditions and measures related to external treatment of waste for disposal*

*Disposal methods* All liquid and solid waste should be incinerated.

67-66-3

*Contributing scenario controlling environmental exposure for: ERC8b*

*Amount used*

*Daily amount per site (M<sub>safe</sub>)* 5 kg

*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* none

*Conditions and measures related to external treatment of waste for disposal*

*Disposal methods* All liquid and solid waste should be incinerated.

· **Physical parameters** See section 9 to the Safety Data Sheet.

· **Physical state** Fluid

· **Concentration of the substance in the mixture**

Raw material.

Covers the percentage of the substance in the product up to 100 %.

· **Used amount per time or activity**

According to directions for use.

Covers the percentage of the substance in the product up to 100 %

· **Other operational conditions** Observe the general safety regulations when handling chemicals.

· **Other operational conditions affecting environmental exposure**

Observe section 6 of the Safety Data Sheet (Accidental release measures).

· **Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Avoid contact with the skin.

Do not breathe gas/vapour/aerosol.

Avoid direct contact with the chemical /product / preparation by organisational measures.

Gloves required during a shift

Always wear safety goggles during mechanical processing (grinding, sawing /cutting, drilling, milling).

Indoor application.

· **Other operational conditions affecting consumer exposure** No special measures required.

· **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.

· **Risk management measures**

· **Worker protection** Observe section 7.1 and 8.1-8.2 of the Safety Data Sheet

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· **Organisational protective measures**

Deploy only trained chemical workers.

Avoid contact with drinking water and / or food during application.

Ensure that activities are executed by specialists or authorised personnel only.

Ensure that the working area is organised, well lit and ventilated, with enough space to handle spilled product.

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Consider section 4 of the Safety Data Sheet (First aid measures).

· **Technical protective measures**

Ensure that suitable extractors are available on processing machines

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

· **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Pregnant women should strictly avoid inhalation or skin contact.

Tightly sealed goggles

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

· **Measures for consumer protection** Ensure adequate labelling.

· **Environmental protection measures**

· **Air** Exhaust air is introduced into the gas scrubber.

· **Water** Do not allow to reach ground water, water bodies or sewage system, not even in small quantities.

· **Soil** Prevent contamination of soil.

· **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.

· **Disposal measures**

Ensure that waste is collected and contained.

Disposal must be made according to official regulations.

· **Disposal procedures**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste type** Partially emptied and uncleaned packaging

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- **Exposure estimation**

- **Worker (dermal)**

Detailed information on the exposure estimation can be found at <http://www.ecetoc.org/tra.67-66-3>

Contributing scenario controlling worker exposure for: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC15

Exposure duration, route, effect: longterm, combined, systemic

The exposure estimation was carried out in accordance with ECETOC TRA.

The calculated value is smaller than the DNEL.

Risk Characterization ratio <1

- **Environment**

A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterization is not necessary (REACH Annex I section 5.0).

- **Consumer** Not relevant for this Exposure Scenario.

- **Guidance for downstream users**

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).