

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 26.12.2023

Version number 5 (replaces version 4)

Revision: 12.07.2023

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

· **1.1 Product identifier**

· **Trade name:** *ethyl acetate*

· **Chemical Identification:**

*Acetic acid, ethyl ester*

*Acetic ether*

*Ethyl ethanoate*

*Vinegar naphtha*

· **Article number:** 0540

· **CAS Number:**

*141-78-6*

· **EC number:**

*205-500-4*

· **Index number:**

*607-022-00-5*

· **Registration number** *01-2119475103-46-XXXX*

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

*Only for the use of professionals users*

· **Life cycle stages**

*IS Use at industrial Sites*

*F Formulation or re-packing*

· **Sector of Use**

*SU8 Manufacture of bulk, large scale chemicals (including petroleum products)*

*SU9 Manufacture of fine chemicals*

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

*SU24 Scientific research and development*

· **Product category**

*PC9a Coatings and paints, thinners, paint removers*

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

*PC21 Laboratory chemicals*

*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*

*PROC4 Chemical production where opportunity for exposure arises*

*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*

*PROC15 Use as laboratory reagent*

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

*PROC5 Mixing or blending in batch processes*

*PROC7 Industrial spraying*

*PROC10 Roller application or brushing*

*PROC13 Treatment of articles by dipping and pouring*

*PROC19 Manual activities involving hand contact*

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*PROC11 Non industrial spraying*

· **Environmental release category**

*ERC1 Manufacture of the substance*

*ERC2 Formulation into mixture*

*ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)*

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

*ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)*

*ERC6a Use of intermediate*

· **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.*

*Leenderweg 78, 5555 CE Valkenswaard, the Netherlands.*

*Tel: +31-(0)40-2071300*

*Fax: +31-(0)40-2048537*

*Email: 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 below section 16 or at <https://poisoncentres.echa.europa.eu/home>.*

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

*Data from: ECHA - EUROPEAN CHEMICALS AGENCY*

*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**



GHS02 flame

*Flam. Liq. 2 H225 Highly flammable liquid and vapour.*



GHS07

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Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.

· **2.2 Label elements**

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

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

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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:**

EUH066 Repeated exposure may cause skin dryness or cracking.

· **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**

CAS: 141-78-6 ethyl acetate

· **Identification number(s)**

· **EC number:** 205-500-4

· **Index number:** 607-022-00-5

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**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **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:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **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).  
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.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **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: 141-78-6 ethyl acetate**

<b>IOELV</b>	Short-term value: 1468 mg/m <sup>3</sup> , 400 ppm
	Long-term value: 734 mg/m <sup>3</sup> , 200 ppm

· **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.

· **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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Hand protection**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
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 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.

· **Penetration time of glove material**

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

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· **Eye/face protection**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

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

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Colourless

· **Odour:**

Fruit-like

· **Odour threshold:**

No data available.

· **Melting point/freezing point:**

-83.57 °C

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

77-78 °C

· **Flammability**

Highly flammable.

· **Lower and upper explosion limit**

· **Lower:**

2.1 Vol %

· **Upper:**

11.5 Vol %

· **Flash point:**

-4 °C

· **Auto-ignition temperature:**

460 °C

· **Decomposition temperature:**

No data available

· **pH**

No data available

· **Viscosity:**

· **Dynamic at 20 °C:**

0.44 mPas

· **Solubility**

· **water at 20 °C:**

79 g/l

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

No data available

· **Vapour pressure at 20 °C:**

97 hPa

· **Vapour pressure at 50 °C:**

360 hPa

· **Density and/or relative density**

· **Density at 20 °C:**

0.9 g/cm<sup>3</sup>

· **Relative density**

No data available

· **Vapour density**

No data available

· **9.2 Other information**

· **Appearance:**

· **Form:**

Fluid

· **Important information on protection of health and environment, and on safety.**

· **Ignition temperature:**

No data available

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Molecular weight**

88 g/mol

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- **Change in condition**
- **Evaporation rate** No data available
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Highly flammable liquid and vapour.
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

**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.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

Oral	LD50	5,620 mg/kg (rabbit)
Inhalative	LC50/4 h	1,600 mg/l (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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.

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not 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 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**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**

HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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**SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1173
· 14.2 UN proper shipping name · ADR · IMDG, IATA	UN1173 ETHYL ACETATE ETHYL ACETATE
· 14.3 Transport hazard class(es) · ADR	
	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E,S-D B
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category · Tunnel restriction code	2 D/E

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- **IMDG**
- **Limited quantities (LQ)** IL
- **Excepted quantities (EQ)** Code: E2
- Maximum net quantity per inner packaging: 30 ml*
- Maximum net quantity per outer packaging: 500 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** Substance is not listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
Substance is not listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
- **Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**  
Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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.*

- **Department issuing SDS:** Product safety department
- **Contact:**  
Austria German Vergiftungsinformationszentrale 01 406 43 43 <http://www.goeg.at/de/VIZ>  
Belgium French Centre antipoison 070 245 245 <http://www.centreantipoisons.be>  
Dutch Antigif centrum 070 245 245 <http://www.antigifcentrum.be>  
German Giftinformationszentrum 070 245 245 <http://www.poisoncentre.be>  
Bulgaria\* Bulgarian Токсикологични центрове 02 9154 411 <https://pirogov.eu/bg>  
Croatia\* Croatian Centar za kontrolu otrovanja +385 1 2348 342 <https://www.imi.hr/en/jedinica/poison-control-centre>  
Czech Rep Czech Toxikologické informační středisko +420 224 91 92 93; +420 224 91 54 02 <http://www.tis-cz.cz>  
Denmark Danish Giftlinien +45 8212 1212 <https://www.bispebjerghospital.dk/giftlinien>

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*Finland Finnish Myrkytystietokeskus 0800 147 111; +358 9 471 977 <http://www.hus.fi/sairaanhoito/sairaanhoitopalvelut/myrkytystietokeskus/Sivut/default.aspx>*  
*France French Angers +33 2 41 48 21 21 <http://www.centres-antipoison.net/angers/index.html>*  
*Bordeaux +33 5 56 96 40 80 <http://www.centres-antipoison.net/bordeaux/index.html>*  
*Lille +33 0800 59 59 59 <http://www.centres-antipoison.net/lille/index.html>*  
*Lyon +33 4 72 11 69 11 <http://www.centres-antipoison.net/lyon/index.html>*  
*Marseille +33 4 91 75 25 25 <http://www.centres-antipoison.net/marseille/index.html>*  
*Nancy +33 3 83 22 50 50 <http://www.centres-antipoison.net/nancy/index.html>*  
*Paris +33 1 40 05 48 48 <http://www.centres-antipoison.net/paris/index.html>*  
*Strasbourg +33 3 88 37 37 37 <http://www.centres-antipoison.net/strasbourg/index.html>*  
*Toulouse +33 5 61 77 74 47 <http://www.centres-antipoison.net/toulouse/index.html>*  
*Germany German Berlin +49 30 19240 <https://giftnotruf.charite.de>*  
*Bonn +49 228 19240 <http://www.gizbonn.de/index.php?id=272>*  
*Erfurt +49 361 730730 <https://www.ggiz-erfurt.de/home.html>*  
*Freiburg +49 761 19240 <https://www.uniklinik-freiburg.de/giftberatung.html>*  
*Göttingen +49 551 19240 <https://www.giz-nord.de/cms/index.php>*  
*Homburg/Saar +49 6841 19240 [http://www.uniklinikumsaarland.de/de/einrichtungen/kliniken\\_institute/kinder\\_und\\_jugendmedizin/informations\\_und\\_behandlungszentrum\\_fuer\\_vergiftungen\\_des\\_saarlandes](http://www.uniklinikumsaarland.de/de/einrichtungen/kliniken_institute/kinder_und_jugendmedizin/informations_und_behandlungszentrum_fuer_vergiftungen_des_saarlandes)*  
*Mainz +49 6131 19240 <http://www.giftinfo.uni-mainz.de/index.php?id=24807>*  
*München +49 89 19240 <http://www.toxinfo.med.tum.de>*  
*Greece Greek κέντρο δηλητηριάσεων +30 213 200 9000 <http://www.aglaiakyriakou.gr/>; <http://0317.syzefxis.gov.gr>*  
*Hungary Hungarian Egészségügyi Toxikológiai Tájékoztató Szolgálat +36 6 80 20 11 99; +36 06 1 476 6464 <http://www.okbi.hu/page.php?trid=1&dz=103>*  
*Italy Italian Bergamo +39 800 88 33 00 [http://www.asst-pg23.it/section/259/Tossicologia\\_-\\_Centro\\_antiveneni](http://www.asst-pg23.it/section/259/Tossicologia_-_Centro_antiveneni)*  
*Firenze +39 55 794 78 19 <http://www.antiveneni.altervista.org>*  
*Milano +39 2 661 01 029 <http://www.centroantiveneni.org>*  
*Pavia +39 382 244 44 <http://www-3.unipv.it/reumatologia-tossicologia/cav>*  
*Napoli +39 81 747 28 70*  
*Foggia +39 881 732 326*  
*Roma +39 6 685 93 726 / +39 6 499 78 000 / +39 6 305 43 43 <http://www.corso-primo-soccorso-roma.it/centri/antiveneno-lazio.html>*  
*Ireland English Poisons information Centre of Ireland +353 1 809 21 66 <http://www.poisons.ie/Public>*  
*Latvia\* Latvian Saindēšanās informācijas centri +371 670 00 610 <https://www.aslimnica.lv/lv>*  
*Russian Латвия +371 67000610 <https://www.aslimnica.lv/lv>*  
*Lithuania Lithuanian Apsinuodijimų informacijos biuras + 370 5 236 20 52 <http://www.apsinuodijau.lt>*  
*Luxembourg German Giftinformationszentrum +49 800 255 00 <http://www.poisoncentre.be>*  
*French Centre antipoison +352 800 255 00 <http://www.centreantipoisons.be>*  
*Netherlands Dutch 31 (0)88 755 8 <https://www.productnotificatie.nl>*  
*Norway Norwegian Giftinformasjonen +47 22 59 13 00 <https://helsenorge.no/Giftinformasjon>*  
*Poland Polish Kraków +48 12 411 99 99 <http://www.oit.cm.uj.edu.pl>*  
*Gdansk +48 58 682 04 04 <http://www.pctox.pl/news.php>*  
*Poznań +48 61 847 69 46 [http://www.raszeja.poznan.pl/oddzialy/oddzial\\_toksykologiczny](http://www.raszeja.poznan.pl/oddzialy/oddzial_toksykologiczny)*  
*Warszawa +48 607 218 174 [okzit@burdpi.pol.pl](mailto:okzit@burdpi.pol.pl)*  
*Portugal Portuguese Centro de Informação Antivenenos +351 808 250 143 <http://www.inem.pt>*

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http://rospotrebnadzor.ru

Serbia Serbian Nacionalni centar za kontrolu trovanja +381 11 3608 440 http://www.vma.mod.gov.rs/sr-lat/specijalnosti/centri/nacionalni-centar-za-kontrolu-trovanja

Slovak Rep Slovak Národné toxikologické informačné centrum +421 2 5477 4166 http://www.ntic.sk

Spain Spanish Servicio de Información Toxicológica +34 91 562 04 20 https://www.administraciondejusticia.gob.es/paj/pub/lico/ciudadano/informacion\_institucional/organismos/instituto\_nacional\_de\_toxicologia\_y\_ciencias\_fo/renses/servicios/info\_toxicologica/que\_es\_sit/ut/p/c5/04\_SB8K8xLLM9MSSzPy8xBz9CP0os3g\_A1cjCyd/DRwMDUwNLA08nwzAvM0czA\_8gM6B8pFm8mae/rqWdQsImJcaiLiYGncViYa4CHR4GBiQExugIwAEd/CusNBrsWpwsLUACKPy3WuRvjlg83wy5sQ0G8C/tR-P\_\_w88nNT9Q\_t\_y\_Q\_y\_M\_M\_M\_j\_0\_z\_A\_9\_I\_V\_F\_Q\_H\_Y\_1\_8\_1\_4\_/d\_l\_3\_/d\_3\_/L2dJQSEvUUt3QS9ZQnZ3LzZfTjBFMjhCMUEwMDUwOT/BJQjFWSjZBNjBPTjA!/?itemId=45381

Sweden Swedish Giftinformationscentralen +46 10 456 6700 https://giftinformation.se

Switzerland German Giftinformationszentrum 145 http://toxinfo.ch

French Centre antipoison 145 http://toxinfo.ch

Italian Centro Antiveleni 145 http://toxinfo.ch

United Kingdom English NHS Helpline 111 NHS Helpline - England and Wales: http://www.nhs.uk/NHSEngland/AboutNHSservices/Emergencyandurgentcareservices/Pages/NHS-111.aspx

• **Date of previous version:** 19.10.2022

• **Version number of previous version:** 4

• **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

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

• **\* Data compared to the previous version altered.**