

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 08.02.2024

Version number 9 (replaces version 8)

Revision: 08.02.2024

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

### 1.1 Product identifier

Trade name: **WALLASOL DIO 40**

Article number: 591657

UFI: E140-Y06P-S00C-W1HQ

### 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

SU21 Consumer uses: Private households / general public / consumers

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

Product category PC35 Washing and cleaning products (including solvent based products)

#### 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

PROC5 Mixing or blending in batch processes

PROC7 Industrial spraying

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)

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC15 Use as laboratory reagent

PROC19 Manual activities involving hand contact

#### Environmental release category

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)

#### Application of the substance / the mixture

Emulsifier

Wetting agent

Uses advised against No further relevant information available.

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

#### Manufacturer/Supplier:

Wall Chemie GmbH

Am Selder 25

D-47906 KEMPEN

DEUTSCHLAND

Tel.: +49 2152 8999 0

E-Mail: [sicherheit@wall-chemie.com](mailto:sicherheit@wall-chemie.com)

Further information obtainable from: Safety and health group

#### 1.4 Emergency telephone number:

This number is serviced during office hours: +49 2152 8999 0

Giftinformationszentrum Nord 24h-information: +49 551 19240



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### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin 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



GHS02 GHS05 GHS07

- Signal word Danger
- (Hazard-determining) components of labelling:

Diisooctyl sulfosuccinate, Na-Salt

Ethanol

2-butoxyethanol

- Hazard statements
- H226 Flammable liquid and vapour.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.

- Precautionary statements

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

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- **Determination of endocrine-disrupting properties**  
For information on endocrine disrupting properties see section 11.

### SECTION 3: Composition/information on ingredients

- **3.1 Mixtures**
- **Description:** aqueous solution

#### · (Dangerous) components:

CAS: 577-11-7 EINECS: 209-406-4 Reg.nr.: 01-2119491296-29	Diisooctyl sulfosuccinate, Na-Salt ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	25-50%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol ⚠ Acute Tox. 3, H331; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg LC50 (Vapour) inhalative: 3 mg/l	10-25%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43	Ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	2.5-<11%

- **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**
- **After inhalation:**  
In case of unconsciousness place patient stably in side position for transportation.  
Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Seek medical treatment.  
Rinse mouth.  
Do not induce vomiting.
- **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**  
Risk of aspiration.

### 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**  
In case of fire, the following can be released:  
Organic decomposition products  
Carbon oxides (CO<sub>x</sub>)  
Sulphur oxides (SO<sub>x</sub>)

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- **5.3 Advice for firefighters**
- **Protective equipment:** Use suitable breathing apparatus if necessary.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Particular danger of slipping on leaked/spilled product.  
Avoid contact with the eyes and skin.
- **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).  
Use neutralising agent.  
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.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Open and handle receptacle with care.  
Wear protective clothing.  
Do not eat, drink or smoke in working area.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** flammable liquid
- **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:**

#### 111-76-2 2-butoxyethanol

IOELV	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 98 mg/m <sup>3</sup> , 20 ppm Skin
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- **DNELs**

#### 577-11-7 Diisooctyl sulfosuccinate, Na-Salt

Oral	DNEL (Long-term, systemic effects)	18.8 mg/kg/d (consumer)
Dermal	DNEL (Long-term, systemic effects)	31.3 mg/kg/d (worker) 18.8 mg/kg/d (consumer)
Inhalative	DNEL (Long-term, systemic effects)	44.1 mg/m <sup>3</sup> (worker) 13 mg/m <sup>3</sup> (consumer)

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#### 111-76-2 2-butoxyethanol

Oral	DNEL (Long-term, systemic effects)	6.3 mg/kg/d (consumer)
	DNEL (Acute, systemic effects)	26.7 mg/kg/d (consumer)
Dermal	DNEL (Long-term, systemic effects)	125 mg/kg/d (worker)
		75 mg/kg/d (consumer)
	DNEL (Acute, systemic effects)	89 mg/kg/d (worker)
		89 mg/kg/d (consumer)
Inhalative	DNEL (Long-term, systemic effects)	98 mg/m <sup>3</sup> (worker)
		59 mg/m <sup>3</sup> (consumer)
	DNEL (Acute, systemic effects)	1,091 mg/m <sup>3</sup> (worker)
		426 mg/m <sup>3</sup> (consumer)
	DNEL (Acute, local effects)	246 mg/m <sup>3</sup> (worker)
		147 mg/m <sup>3</sup> (consumer)

#### 64-17-5 Ethanol

Oral	DNEL (Long-term, systemic effects)	87 mg/kg/d (consumer)
Dermal	DNEL (Long-term, systemic effects)	343 mg/kg/d (worker)
		206 mg/kg/d (consumer)
Inhalative	DNEL (Long-term, systemic effects)	950 mg/m <sup>3</sup> (worker)
		114 mg/m <sup>3</sup> (consumer)
	DNEL (Acute, local effects)	1,900 mg/m <sup>3</sup> (worker)
		950 mg/m <sup>3</sup> (consumer)

#### · PNECs

##### 577-11-7 Diisooctyl sulfosuccinate, Na-Salt

PNEC	0.0066 mg/l (fresh water)
	0.00066 mg/l (seawater)
	0.066 mg/l (water (intermittent release))
PNEC	0.653 mg/kg (Sediment (Süßwasser))
	0.0653 mg/kg (sediment)

#### 111-76-2 2-butoxyethanol

PNEC	8.8 mg/l (fresh water)
	0.88 mg/l (seawater)
	26.4 mg/l (water (intermittent release))
	463 mg/l (wastewater treatment plant)
PNEC	34.6 mg/kg (Sediment (Süßwasser))
	3.46 mg/kg (sediment)
	2.33 mg/kg (soil)

#### 64-17-5 Ethanol

PNEC	0.96 mg/l (fresh water)
	0.79 mg/l (seawater)
	2.75 mg/l (water (intermittent release))
	580 mg/l (wastewater treatment plant)
PNEC	3.6 mg/kg (Sediment (Süßwasser))
	2.9 mg/kg (sediment)
	0.63 mg/kg (soil)

· **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.  
 Avoid contact with the eyes and skin.  
 Do not eat, drink, smoke or sniff while working.  
 The recommended specification of the protective clothing articles is to be chosen according to the duration of the exposition, the concentration and the amount of the dangerous substances at the working environment. Seek advice of the suppliers.
- **Respiratory protection:**  
 Use suitable respiratory protective device in case of insufficient ventilation.  
 Filter A
- **Hand protection**  
 Protective gloves
- **Material of gloves**  
 Butyl rubber, BR  
 Recommended thickness of the material:  $\geq 0.5$  mm
- **Penetration time of glove material**  
 Minimum breakthrough time : > 480 min (Permeation according to EN 374 Part 3: level 6)
- **Eye/face protection**  
 Tightly sealed goggles (EN 166).
- **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Clear
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Undetermined.
- **Flammability** The substance is capable of catching fire or being set on fire.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** 35 °C
- **Decomposition temperature:** Not determined.
- **pH (10 g/l) at 20 °C** 5.0 - 6.5
- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **Dynamic:** 0 - 20 mPas (60 °C)

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· <b>Solubility</b>	
· <b>water:</b>	Soluble.
· <b>Partition coefficient n-octanol/water (log value)</b>	Product is an emulsifier.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	ca. 1.0 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <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 is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.
· <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>	Flammable liquid and vapour.
· <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

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Product is stable under normal ambient conditions.  
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.

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- **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**

Harmful if inhaled.

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

The classification was carried out according to the calculation method described in section 3.1.3.6.1, Annex 1 of the VO1272/2008

Oral	LD50	>2,000 mg/kg (--)
Dermal	LD50	>2,000 mg/kg (--)
Inhalative	LC50 (Vapour)	>10 mg/l (--)

### 577-11-7 Diisooctyl sulfosuccinate, Na-Salt

Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)

### 111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/kg (ATE)
Dermal	LD50	>2,000 mg/kg (Meerschweinchen)
Inhalative	LC50 (Vapour)	3 mg/l (ATE)

### 64-17-5 Ethanol

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>10,000 mg/l (rat)

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/irritation**

Causes serious eye damage.

- **Respiratory or skin sensitisation** No sensitising effects known.

- **Germ cell mutagenicity** no data

- **Carcinogenicity** no data

- **Reproductive toxicity** no data

- **STOT-single exposure** no data

- **STOT-repeated exposure** no data

- **Aspiration hazard** no data

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

- **Other information** No further relevant information available.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

This statement was deduced from products with a similar structure or composition.

EC50	>10-≤100 mg/l (alga)
	>1-≤10 mg/l (daphne)

### 577-11-7 Diisooctyl sulfosuccinate, Na-Salt

EC50	>10-≤100 mg/l (alga)
	>1-≤10 mg/l (daphne)

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LC50	>10-≤100 mg/l (fish)
<b>111-76-2 2-butoxyethanol</b>	
EC50	1,840 mg/l (alga) (OECD 201) 1,550 mg/l (daphne) (OECD 202)
EC0	700 mg/l (--) (DIN 38412)
LC50	1,474 mg/l (fish) (OECD 203)
NOEC	100 mg/l (daphne) (OECD 211)
chronic NOEC / ECx	286 mg/l (alga) (OECD 201)
<b>64-17-5 Ethanol</b>	
EC50	>100 mg/l (alga) >10,000 mg/l (daphne)
LC50	>5,000 mg/l (fish)

#### · 12.2 Persistence and degradability

readily biodegradable

Degradation rate &gt;70% Time (d) 28 days Method OECD 301D (CAS: 577-11-7)

Degradation rate 90% Time (d) 28 days Method OECD 301B (CAS: 111-76-2)

#### · 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

For information on endocrine disrupting properties see section 11.

#### · 12.7 Other adverse effects

#### · Additional ecological information:

#### · General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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

## SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

#### · Recommendation

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

#### · Waste disposal key:

Determine wastes code in compliance with local waste management company according the European Waste Catalogue (EWC).

#### · Uncleaned packaging:

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

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

#### · 14.1 UN number or ID number

· **ADR, IMDG, IATA**

UN1993

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· <b>14.2 UN proper shipping name</b>	1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))
· <b>ADR</b>	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))
· <b>IMDG</b>	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))
· <b>IATA</b>	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Hazard identification number (Kemler code):</b>	30
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	A
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL)), 3, III

## 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** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t

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- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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.
- **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:**  
Chemical safety assessments for substances in this mixture, that are subject to registration:  
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.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.
- **Department issuing SDS:** Safety and Health group
- **Contact:** Birgit Fielers, Katja Houf
- **Date of previous version:** 07.08.2023
- **Version number of previous version:** 8
- **Abbreviations and acronyms:**  
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)  
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  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- **\* Data compared to the previous version altered.**