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 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 22.02.2019 / 0010  
 Replacing version dated / version: 02.06.2018 / 0009  
 Valid from: 22.02.2019  
 PDF print date: 09.03.2019  
 Sekunden-Kleber 10 g  
 Art.: 3805

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

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

**Relevant identified uses of the substance or mixture:**

- Adhesive  
 Sector of use (SU):  
 SU 3 - 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)  
 Chemical product category (PC):  
 PC 1 - Adhesives, sealants  
 Process category (PROCC):  
 PROCC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities  
 PROCC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities  
 PROCC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)  
 PROCC 10 - Roller application or brushing  
 Article Categories (AC):  
 AC99 - Not required.  
 Environmental Release Category (ERC):  
 ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)  
 ERC 7 - Use of functional fluid at industrial site  
 ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)  
 ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

#### Uses advised against:

No information available at present.

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

LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany  
 Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:  
 +49 (0) 700 / 24 112 112 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**  
 Hazard class      Hazard category      Hazard statement  
 Eye Irrit.            2                                      H319-Causes serious eye irritation.

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STOT SE                                      3                                      H335-May cause respiratory irritation.  
 Skin Irrit.                                    2                                      H315-Causes skin irritation.

### 2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



#### Warning

- H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation.  
 P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.  
 P261-Avoid breathing vapours or spray. P280-Wear protective gloves / eye protection / face protection.  
 P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312-Call a POISON CENTRE / doctor if you feel unwell.  
 P405-Store locked up.  
 P501-Dispose of contents / container to an approved waste disposal facility.  
 EUH202-Cyanacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.  
 EUH208-Contains 1,4-dihydroxybenzene. May produce an allergic reaction.

#### Ethyl 2-cyanoacrylate

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).  
 The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

### SECTION 3: Composition/information on ingredients

#### 3.1 Substance

#### 3.2 Mixture

Ethyl 2-cyanoacrylate	***
Registration number (REACH)	607-236-00-9
Index	230-391-5
EINECS, ELINCS, NLP	7085-65-0
CAS	80-100
content %	Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315
Classification according to Regulation (EC) 1272/2008 (CLP)	

1,4-dihydroxybenzene	***
Registration number (REACH)	604-005-00-4
Index	204-617-8
EINECS, ELINCS, NLP	

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CAS	123-31-9
content %	0,1-0,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Carc. 2, H351 Muta. 2, H341 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3, 1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

##### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

##### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap. Call a doctor immediately, keep datasheet at hand

If the skin is glued:

Do not attempt to force glued areas of skin apart.

##### Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

##### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting.

Call doctor immediately - have Data Sheet available.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

The following may occur:

Respiratory distress

May cause sensitisation by inhalation.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

Symptomatic treatment.

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

##### Suitable extinguishing media

CO2

Water, jet spray

Exinction powder

Large fire:

Water, jet spray

Alcohol resistant foam

##### Unsuitable extinguishing media

High volume water jet

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

In case of fire the following can develop:

Toxic gases

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Oxides of carbon  
 Oxides of nitrogen

Cyanides

##### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

#### SECTION 6: Accidental release measures

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

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

##### 6.2 Environmental precautions

If leakage occurs, dam up.

Prevent leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent surface and ground-water infiltration, as well as ground penetration.

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

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

Flush residue using copious water.

##### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

#### SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

##### 7.1 Precautions for safe handling

###### 7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Handle and open container with care.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

During processing:

Ambient humidity should be increased to at least 50-60% relative humidity.

###### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Do not store with alkalis.

Do not store with acids.

Do not store with oxidizing agents.

Protect against moisture and store closed.

Protect from direct sunlight and warming.

Only store at temperatures from 10°C to 22°C.

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

No information available at present.

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

## 8.1 Control parameters

Chemical Name	Ethyl 2-cyanoacrylate	Content %: 80-100
WEL-TWA: ---	WEL-STEL: 0.3 ppm (1.5 mg/m <sup>3</sup> )	---
Monitoring procedures: ---	---	---
BMGV: ---	Other information: ---	---
Chemical Name	1,4-dihydroxybenzene	Content %: 0,1-0,5
WEL-TWA: 0.5 mg/m <sup>3</sup>	WEL-STEL: ---	---
Monitoring procedures: ---	---	---
BMGV: ---	Other information: ---	---
Chemical Name	Silica, amorphous	Content %:
WEL-TWA: 6 mg/m <sup>3</sup> (total inh. dust), 2.4 mg/m <sup>3</sup>	WEL-STEL: ---	---
(resp. dust)	---	---
Monitoring procedures: ---	---	---
BMGV: ---	Other information: ---	---

Ethyl 2-cyanoacrylate	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, systemic effects	DNEL	9,25	mg/m <sup>3</sup>	
Consumer	Human - inhalation	Long term, local effects	DNEL	9,25	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	9,25	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	9,25	mg/m <sup>3</sup>	

Silica, amorphous	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4	mg/m <sup>3</sup>	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU, 2017/2398/EU), | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU, 2017/2398/EU), (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40, BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma, SK = Can be absorbed through skin, Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repeated through the TRGS 900 (Germany) of January 2006 with the goal of revision.

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.  
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
 These are specified by e.g. BS EN 14042.  
 BS EN 14042: "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

## 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedstuffs.  
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**Eyeface protection:**  
 Tight fitting protective goggles with side protection (EN 166).

**Skin protection - Hand protection:**  
 Solvent resistant protective gloves (EN 374).  
 If applicable  
 Protective nitrile gloves (EN 374)  
 Minimum layer thickness in mm:  
 0.4  
 Permeation time (penetration time) in minutes:  
 > 480  
 Protective hand cream recommended.  
 Unsuitable material:  
 Rubber gloves (EN 374).  
 Protective PVC gloves (EN 374)  
 Cotton gloves

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
 The recommended maximum wearing time is 50% of breakthrough time.

**Skin protection - Other:**  
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

**Respiratory protection:**  
 Normally not necessary.  
 If OES or MEL is exceeded.  
 Filter A P2 (EN 14387), code colour brown, white  
 Observe wearing time limitations for respiratory protection equipment.

**Thermal hazards:**  
 Not applicable

**Additional information on hand protection - No tests have been performed.**  
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
 Selection of materials derived from glove manufacturer's indications.  
 Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
 Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
 In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state:** Liquid

**Colour:** Colourless

**Odour:** Characteristic

**Odour threshold:** Not determined

**pH-value:** n.a.

**Melting point/freezing point:** >149 °C

**Initial boiling point and boiling range:** 80-93.4 °C (DIN 51758 (Pensky-Martens, closed cup))

**Flash point:** Not determined

**Evaporation rate:** Not determined

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Flammability (solid, gas): n.a.  
 Lower explosive limit: Not determined  
 Upper explosive limit: Not determined  
 Vapour pressure: 1.5 hPa (25°C, DIN 51616)  
 Vapour density (air = 1): Not determined  
 Density: 1.1 g/cm<sup>3</sup> (25°C, DIN 51757)  
 Bulk density: n.a.  
 Solubility(ies): Not determined  
 Water solubility: reacts with water, Insoluble  
 Partition coefficient (n-octanol/water): Not determined  
 Auto-ignition temperature: 450 °C  
 Decomposition temperature: Not determined  
 Viscosity: 100-200 mPaS (23°C)  
 Explosive properties: Product is not explosive,  
 Oxidising properties: No  
**9.2 Other information**  
 Miscibility: Not determined  
 Fat solubility / solvent: Not determined  
 Conductivity: Not determined  
 Surface tension: Not determined  
 Solvents content: >20 g/l

## SECTION 10: Stability and reactivity

- 10.1 Reactivity**  
 The product has not been tested.
- 10.2 Chemical stability**  
 Stable with proper storage and handling.
- 10.3 Possibility of hazardous reactions**  
 Hazardous reactions will not occur during storage and handling under normal conditions.
- 10.4 Conditions to avoid**  
 Protect from humidity,  
 Heating, open flame, ignition sources  
 Protect from frost.
- 10.5 Incompatible materials**  
 Do not bring into contact with water,  
 Polymerisation possible  
 Violent reaction with:  
 Water  
 Bases  
 Acids  
 Oxidizing agents  
 Amines  
 Alcohols

## 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Possibly, more information on health effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Value	Unit	Organism
Acute toxicity, by oral route:				n.d.a.
Acute toxicity, by dermal route:				n.d.a.
Acute toxicity, by inhalation:				n.d.a.
Skin corrosion/irritation:				n.d.a.
Serious eye damage/irritation:				n.d.a.

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Respiratory or skin sensitisation: n.d.a.  
 Germ cell mutagenicity: n.d.a.  
 Carcinogenicity: n.d.a.  
 Reproductive toxicity: n.d.a.  
 Specific target organ toxicity - single exposure (STOT-SE): n.d.a.  
 Specific target organ toxicity - repeated exposure (STOT-RE): n.d.a.  
 Aspiration hazard: n.d.a.  
 Symptoms: n.d.a.

Ethyl 2-cyanoacrylate				
Toxicity / effect	Endpoint	Value	Unit	Organism
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit
Skin corrosion/irritation:				Rabbit
Serious eye damage/irritation:				Rabbit
Germ cell mutagenicity:				Negative
Germ cell mutagenicity:				Negative
Germ cell mutagenicity:				Negative
Aspiration hazard:				No
Symptoms:				respiratory distress, coughing, mucous membrane irritation, watering eyes
Specific target organ toxicity - inhalative:				STOT-SE 3, H335

1,4-dihydroxybenzene				
Toxicity / effect	Endpoint	Value	Unit	Organism
Acute toxicity, by oral route:	LD50	320-400	mg/kg	Rat
Acute toxicity, by dermal route:	LD50	298	mg/kg	Rat
Acute toxicity, by inhalation:	LD50	>2000	mg/kg	Rat
Serious eye damage/irritation:				Corrosive
Respiratory or skin sensitisation:				Sensitising (skin contact)
Symptoms:				respiratory distress, unconsciousness, vomiting, headaches, cramps, mucous membrane irritation, nausea

Silica, amorphous				
Toxicity / effect	Endpoint	Value	Unit	Organism

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Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	Anatobgous conclusion
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		References, Maximum achievable concentration.
Acute toxicity, by inhalation:	LC50	>0,139	mg/l/4h	Rat		Not irritant, References
Skin corrosion/irritation:				Rabbit		Not irritant, Mechanical irritation possible, References
Serious eye damage/irritation:				Rabbit		Not sensitizing
Respiratory or skin sensitisation:				Guinea pig		Negative
Germ cell mutagenicity:						No indications of such an effect.
Carcinogenicity:						No indications of such an effect.
Reproductive toxicity (Developmental toxicity):						eyes: reddened
Symptoms:						

### SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment:							n.d.a.
12.6. Other adverse effects:							n.d.a.
Other information:							DOC-elimination degree (complexing organic substance) >= 80%/2Bd: n.a.

Ethyl 2-cyanoacrylate	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		1,42				Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance. No vPvB substance

1,4-dihydroxybenzene	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,04 - 0,1	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	0,13	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	0,335	mg/l	Pseudokirchneriella subcapitata		

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12.2. Persistence and degradability:	14d	86	%		Readily biodegradable
12.3. Bioaccumulative potential:	BCF	40			
Toxicity to bacteria:	EC50	30min	0,038	mg/l	Photobacterium phosphoreum

Silica, amorphous	Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h		>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	24h		>10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EL50	72h		>10000	mg/l		OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:								Abiotically degradable, Not to be expected
12.3. Bioaccumulative potential:								Not to be expected
12.4. Mobility in soil:								Not to be expected
12.5. Results of PBT and vPvB assessment								No PBT substance. No vPvB substance

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods / For the substance / mixture / residual amounts

EC disposal code no.:  
 The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)  
 08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances  
 Recommendation:  
 Sewage disposal shall be discouraged.  
 Pay attention to local and national official regulations.  
 E.g. suitable incineration plant.  
 E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.  
 Empty container completely.  
 Uncontaminated packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

### SECTION 14: Transport information

#### General statements

14.1. UN number: n.a.  
 14.2. UN proper shipping name: n.a.  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 Classification code: n.a.

#### Transport by road/by rail (ADR/RID)

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LQ:  
 14.5. Environmental hazards:  
 Tunnel restriction code:  
**Transport by sea (IMDG-code)**  
 14.2. UN proper shipping name:  
 14.3. Transport hazard class(es):  
 Marine Pollutant:  
 14.5. Environmental hazards:  
**Transport by air (IATA)**  
 14.2. UN proper shipping name:  
 14.3. Transport hazard class(es):  
 14.4. Packing group:  
 14.5. Environmental hazards:

n.a.  
 Not applicable

**Transport by sea (IMDG-code)**

n.a.  
 n.a.  
 n.a.  
 Not applicable

**Transport by air (IATA)**

n.a.  
 n.a.  
 n.a.  
 Not applicable

**14.6. Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

Non-dangerous material according to Transport Regulations.

**SECTION 15: Regulatory information**

Observe restrictions:  
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

< 20 g/l

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information**

Revised sections:  
 2, 3, 8, 11, 12, 16

These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

**Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):**

Classification in accordance with regulation (EG) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3):  
 H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H341 Suspected of causing genetic defects.  
 H351 Suspected of causing cancer.  
 H400 Very toxic to aquatic life.

Eye Irrit. — Eye irritation

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STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation  
 Skin Irrit. — Skin irritation  
 Carc. — Carcinogenicity  
 Muta. — Germ cell mutagenicity  
 Acute Tox. — Acute toxicity - oral  
 Eye Dam. — Serious eye damage  
 Skin Sens. — Skin sensitization  
 Aquatic Acute — Hazardous to the aquatic environment - acute

**Any abbreviations and acronyms used in this document:**

AC Article Categories  
 acc. acc. to according, according to  
 ACGH American Conference of Governmental Industrial Hygienists  
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 ADEL Acceptable Operator Exposure Level  
 AOX Adsorbable organic halogen compounds  
 approx. approximately  
 Art., Art.no. Article number  
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)  
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
 BAUA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
 BCF Bioconcentration factor  
 BGV Berufsgenossenschaftliche Vorschriften (= Accident Prevention Regulation)  
 BHT Butylhydroxytoluol (= 2,6-Di-*t*-butyl-4-methyl-phenol)  
 BOD Biochemical oxygen demand  
 BSEF Bromine Science and Environmental Forum  
 bw body weight  
 CAS Chemical Abstracts Service  
 CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids  
 CESCO Comité Européen des Agencés de Surface et de leurs Intermédiaires Organiques  
 CIPAC Collaborative International Pesticides Analytical Council  
 CLP Classification, Labelling and Packaging (REGULATION) (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
 CMR carcinogenic, mutagenic, reproductive toxic  
 COD Chemical oxygen demand  
 CTFA Cosmetic, Toiletry, and Fragrance Association  
 DMEL Derived Minimum Effect Level  
 DNEL Derived No Effect Level  
 DOC Dissolved organic carbon  
 DT50 Dwell Time - 50% reduction of start concentration  
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)  
 dw dry weight  
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
 EC European Community  
 ECHA European Chemicals Agency  
 EEA European Economic Area  
 EEC European Economic Community  
 EINECS European Inventory of Existing Commercial Chemical Substances  
 ELINCS European List of Notified Chemical Substances  
 EN European Norms  
 EPA United States Environmental Protection Agency (United States of America)  
 ERC Environmental Release Categories  
 ES Exposure scenario  
 etc. et cetera  
 EU European Union  
 EWC European Waste Catalogue  
 Fax, Fax number  
 gen. general  
 GHS Globally Harmonized System of Classification and Labelling of Chemicals

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GWP Global warming potential  
 HET-CAM Hen's Egg Test - Choriomallonic Membrane  
 HGWP Halocarbon Global Warming Potential  
 IARC International Agency for Research on Cancer  
 IATA International Air Transport Association  
 IBC Intermediate Bulk Container  
 IBC (Code) International Bulk Chemical (Code)  
 IC Inhibitory concentration  
 IMDG-code International Maritime Code for Dangerous Goods  
 incl. including, inclusive  
 IUCLID International Uniform Chemical-Information Database  
 LC lethal concentration  
 LC50 lethal concentration 50 percent kill  
 LCLo lowest published lethal concentration  
 LD Lethal Dose of a chemical  
 LD50 Lethal Dose, 50% kill  
 LDLo Lethal Dose Low  
 LOAEL Lowest Observed Adverse Effect Level  
 LOEC Lowest Observed Effect Concentration  
 LOEL Lowest Observed Effect Level  
 LQ Limited Quantities  
 MARPOL International Convention for the Prevention of Marine Pollution from Ships  
 n.a. not applicable  
 n.av. not available  
 n.c. not checked  
 n.d.a. no data available  
 NIOSH National Institute of Occupational Safety and Health (United States of America)  
 NOAEC No Observed Adverse Effect Concentration  
 NOAEL No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration  
 NOEL No Observed Effect Level  
 ODP Ozone Depletion Potential  
 OECD Organisation for Economic Co-operation and Development  
 org. organic  
 PAH polycyclic aromatic hydrocarbon  
 PBT persistent, bioaccumulative and toxic  
 PC Chemical product category  
 PE Polyethylene  
 PNEC Predicted No Effect Concentration  
 POCP Photochemical ozone creation potential  
 ppm parts per million  
 PROC Process category  
 PTFE Polytetrafluorethylene  
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 REACH-IT List No. 9xx-xxxx No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
 RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
 SADT Self-Accelerating Decomposition Temperature  
 SAR Structure Activity Relationship  
 SU Sector of use  
 SVHC Substances of Very High Concern  
 Tel. Telephone  
 ThOD Theoretical oxygen demand  
 TOC Total organic carbon  
 TRGS Technische Regeln für Gefahrstoffe (= Technical Regulations for Hazardous Substances)  
 UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
 VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))  
 VOC Volatile organic compounds  
 vPvB very persistent and very bioaccumulative  
 WEL-TWA, WEL-STEL, WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

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WHO World Health Organization  
 wwt wet weight

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 These statements were made by:  
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