# Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

# Methanol pure EP (pharma grade)

Version number: GHS 2.0
Replaces version of: 2022-08-10 (GHS 1)

Revision: 2025-04-15

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

### 1.1 Product identifier

**Identification of the substance** **Methanol pure EP (pharma grade)**

**CAS number** 67-56-1

**Article number** LC-4155

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

**Relevant identified uses** General use

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

NeoFroxx GmbH
Marie-Curie-Str. 3
D-64683 Einhausen
Germany

Telephone: +49 (6251) 989 24 - 0
e-mail: info@neofroxx.com
Website: neofroxx.com

**e-mail (competent person)** info@neofroxx.com (neoFroxx GmbH)

### 1.4 Emergency telephone number

Poison centre

| Country | Name | Postal code/city | Telephone |
|---|---|---|---|
| United Kingdom | National Poisons Information Service | | 111 |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification acc. to GHS**

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---|---|---|---|---|
| 2.6 | flammable liquid | 2 | Flam. Liq. 2 | H225 |
| 3.1O | acute toxicity (oral) | 3 | Acute Tox. 3 | H301 |
| 3.1D | acute toxicity (dermal) | 3 | Acute Tox. 3 | H311 |
| 3.1I | acute toxicity (inhal.) | 3 | Acute Tox. 3 | H331 |
| 3.8 | specific target organ toxicity - single exposure | 1 | STOT SE 1 | H370 |

For full text of abbreviations: see SECTION 16.

**The most important adverse physicochemical, human health and environmental effects**

Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

**Labelling**

- Signal word danger

- Pictograms

GHS02, GHS06, GHS08 

- Hazard statements

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301+H311+H331 | Toxic if swallowed, in contact with skin or if inhaled. |
| H370 | Causes damage to organs. |

- Precautionary statements

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P308+P311 | IF exposed or concerned: Call a POISON CENTER/doctor. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |

### 2.3 Other hazards

**Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

**Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

**Name of substance** Methanol pure EP (pharma grade)

**Identifiers**

CAS No 67-56-1

EC No 200-659-6

Index No (GB CLP) 603-001-00-X

| Specific Conc. Limits | M-Factors | ATE | Exposure route |
|---|---|---|---|
| STOT SE 1; H370: C ≥ 10 %<br>STOT SE 2; H371: 3 % ≤ C < 10 % | - | 100 $^{mg}/_{kg}$<br>300 $^{mg}/_{kg}$<br>3 $^{mg}/_{l}$/4h | oral<br>dermal<br>inhalation: vapour |

**Molecular formula** CH4O

**Molar mass** 32.04 $^{g}/_{mol}$

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

#### Unsuitable extinguishing media

Water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains

#### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

#### Appropriate containment techniques

Use of adsorbent materials.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EU | methanol | 67-56-1 | IOELV | 200 | 260 | | | | | H | 2006/15/EC |
| GB | methanol | 67-56-1 | WEL | 200 | 266 | 250 | 333 | | | H | EH40/2005 |

Notation

| | |
|---|---|
| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
| H | absorbed through the skin |
| STEL | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) |
| TWA | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) |

#### Human health values

Relevant DNELs and other threshold levels

| Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|---|---|---|---|
| DNEL | 130 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| DNEL | 130 mg/m³ | human, inhalatory | worker (industry) | acute - systemic effects |
| DNEL | 130 mg/m³ | human, inhalatory | worker (industry) | chronic - local effects |
| DNEL | 130 mg/m³ | human, inhalatory | worker (industry) | acute - local effects |
| DNEL | 20 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| DNEL | 20 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |

#### Environmental values

Relevant PNECs and other threshold levels

| Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|---|---|---|---|---|
| PNEC | 20.8 $^{mg}/_{l}$ | aquatic organisms | freshwater | short-term (single instance) |
| PNEC | 2.08 $^{mg}/_{l}$ | aquatic organisms | marine water | short-term (single instance) |
| PNEC | 100 $^{mg}/_{l}$ | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| PNEC | 77 $^{mg}/_{kg}$ | aquatic organisms | freshwater sediment | short-term (single instance) |
| PNEC | 7.7 $^{mg}/_{kg}$ | aquatic organisms | marine sediment | short-term (single instance) |
| PNEC | 100 $^{mg}/_{kg}$ | terrestrial organisms | soil | short-term (single instance) |

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

NBR: acrylonitrile-butadiene rubber

- Material thickness min. 0,11 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

P2 (filters at least 94 % of airborne particles, colour code: White).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | liquid |
| **Colour** | colourless |
| **Odour** | pungent |
| **Odour threshold** | 10 ppm |
| **Melting point/freezing point** | -97.8 °C |
| **Boiling point or initial boiling point and boiling range** | 64.7 °C at 1,013 hPa |
| **Flammability** | flammable liquid in accordance with GHS criteria |
| **Lower and upper explosion limit** | 5.5 vol% - 44 vol% |
| **Flash point** | 9.7 °C at 1,013 hPa |
| **Auto-ignition temperature** | 455 °C at 1,013 hPa (ECHA) |
| **Decomposition temperature** | not relevant |
| **pH (value)** | not determined |
| **Kinematic viscosity** | not determined |

#### Solubility(ies)

| | |
|---|---|
| Water solubility | ≥1,000 $^{g}/_{l}$ at 20 °C |

**Partition coefficient**

| | |
|---|---|
| Partition coefficient n-octanol/water (log value) | -0.77 (ECHA) |

| | |
|---|---|
| Vapour pressure | 169.3 hPa at 25 °C |

**Density and/or relative density**

| | |
|---|---|
| Density | 0.79 – 0.8 $^{g}/_{cm^3}$ at 20 °C |
| Relative vapour density | information on this property is not available |

| | |
|---|---|
| Particle characteristics | not relevant (liquid) |

### 9.2 Other information

| | |
|---|---|
| **Information with regard to physical hazard classes** | there is no additional information |
| **Other safety characteristics** | there is no additional information |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

Danger of explosion with:
oxidizing agent
halogens
sodium hypochlorite
sulfuric acid
nitrogen oxides
chlorates
Chromium(VI) oxide
chromic sulfuric acid
halogen oxides
hydrides
salts of halooxyacids
perchlorates
perchloric acid
permanganic acid
hydrogen peroxide
zinc diethyl
nonmetal oxides
Powdered magnesium
nitric acid
Exothermic reaction with:

acids
chloroform
acid anhydrides
reducing agent
bromine
chlorine
carbon tetrachloride
acid halides
magnesium
Risk of ignition or formation of flammable gases or vapors with:
fluorine
phosphorus oxides
Raney nickel
Evolution of dangerous gases or fumes with:
alkali metals
alkaline earth metals.

### 10.4 Conditions to avoid

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

### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

### Classification acc. to GHS

### Acute toxicity

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

- Acute toxicity estimate (ATE)

| | |
|---|---|
| Oral | 100 $^{mg}/_{kg}$ |
| Dermal | 300 $^{mg}/_{kg}$ |
| Inhalation: vapour | 3 $^{mg}/_{l}$/4h |

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Causes damage to organs.

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

#### Biodegradation

The substance is readily biodegradable.

| Process of degradability | | |
|---|---|---|
| **Process** | **Degradation rate** | **Time** |
| oxygen depletion | 69 % | 5 d |

### 12.3 Bioaccumulative potential

Data are not available.

| | |
|---|---|
| **n-octanol/water (log KOW)** | -0.77 (ECHA) |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Solvent reclamation/regeneration.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number or ID number

**ADR/RID** UN 1230

| | |
|---|---|
| **IMDG-Code** | UN 1230 |
| **ICAO-TI** | UN 1230 |

**14.2 UN proper shipping name**

| | |
|---|---|
| **ADR/RID** | METHANOL |
| **IMDG-Code** | METHANOL |
| **ICAO-TI** | Methanol |

**14.3 Transport hazard class(es)**

| | |
|---|---|
| **ADR/RID** | 3 (6.1) |
| **IMDG-Code** | 3 (6.1) |
| **ICAO-TI** | 3 (6.1) |

**14.4 Packing group**

| | |
|---|---|
| **ADR/RID** | II |
| **IMDG-Code** | II |
| **ICAO-TI** | II |

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations

**14.6 Special precautions for user**

Provisions for dangerous goods (ADR) should be complied within the premises.

**14.7 Maritime transport in bulk according to IMO instruments**

The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information**

| | |
|---|---|
| Classification code | FT1 |
| Danger label(s) | 3+6.1 |

| | |
|---|---|
| Special provisions (SP) | 279, 802(ADN) |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | D/E |
| Hazard identification No | 336 |
| Emergency Action Code | 2WE |

**Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information**

| | |
|---|---|
| Classification code | FT1 |
| Danger label(s) | 3+6.1 |

| | |
|---|---|
| Special provisions (SP) | 279, 802(ADN) |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Hazard identification No | 336 |

**International Maritime Dangerous Goods Code (IMDG) - Additional information**

| | |
|---|---|
| Marine pollutant | - |
| Danger label(s) | 3+6.1 |

| | |
|---|---|
| Special provisions (SP) | 279 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| EmS | F-E, S-D |
| Stowage category | B |

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

| | |
|---|---|
| Danger label(s) | 3+6.1 |

| | |
|---|---|
| Special provisions (SP) | A113 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |

## SECTION 15: Regulatory information

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

**Relevant provisions of the European Union (EU)**

**Deco-Paint Directive**

| | |
|---|---|
| VOC content | 100 % |

**Industrial Emissions Directive (IED)**

| | |
|---|---|
| VOC content | 100 % |

**Water Framework Directive (WFD)**

not listed

**Regulation on persistent organic pollutants (POP)**

not listed

### National regulations (GB)

### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

not listed

### Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)

| Name of substance | Name acc. to inventory | CAS No | No |
|---|---|---|---|
| Methanol pure EP (pharma grade) | Methanol | 67-56-1 | 69 |
| Methanol pure EP (pharma grade) | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | 3 |
| Methanol pure EP (pharma grade) | flammable / pyrophoric | | 40 |

### National inventories

| Country | Inventory | Status |
|---|---|---|
| EU | REACH Reg. | substance is listed |

Legend

REACH Reg. REACH registered substances

## 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---|---|---|---|
| 1.1 | Registration number (REACH): 01-2119392409-28-xxxx, 01-2119433307-44-xxxx | | yes |
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 3.1 | REACH Reg. No: 01-2119392409-28-xxxx 01-2119433307-44-xxxx | | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |
| 9.2 | Other safety characteristics | Other safety characteristics: there is no additional information | yes |
| 9.2 | Temperature class (EU, acc. to ATEX): T1 (maximum permissible surface temperature on the equipment: 450°C) | | yes |
| 12.5 | Results of PBT and vPvB assessment: Data are not available. | Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. | yes |
| 12.6 | Endocrine disrupting properties: Not listed. | Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%. | yes |
| 14.7 | Classification code: 3 | Classification code: FT1 | yes |

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---|---|---|---|
| 15.1 | Restrictions according to REACH, Annex XVII | | yes |
| 15.1 | | Dangerous substances with restrictions (REACH, Annex XVII):<br>change in the listing (table) | yes |
| 15.1 | List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list:<br>not listed | | yes |
| 15.1 | | National regulations (GB) | yes |
| 15.1 | | List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list:<br>not listed | yes |
| 15.1 | | Restrictions according to GB REACH, Annex 17 | yes |
| 15.1 | | Dangerous substances with restrictions (GB REACH, Annex 17):<br>change in the listing (table) | yes |
| 15.1 | | National inventories:<br>change in the listing (table) | yes |
| 16 | | Abbreviations and acronyms:<br>change in the listing (table) | yes |
| 16 | Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA). | Key literature references and sources for data: Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA). | yes |

## Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|---|---|
| 2006/15/EC | Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED | Endocrine disruptor |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |

| Abbr. | Descriptions of used abbreviations |
|---|---|
| EmS | Emergency Schedule |
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| IOELV | Indicative occupational exposure limit value |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| STEL | Short-term exposure limit |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

## Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H331 | Toxic if inhaled. |
| H370 | Causes damage to organs. |

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.