

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Formic acid 98 - 100 % pure

Revision date: 12.01.2022

Product code: 05311

Page 1 of 12

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

### 1.1. Product identifier

Formic acid 98 - 100 % pure

REACH Registration Number: 01-2119491174-37-XXXX  
CAS No: 64-18-6  
Index No: 607-001-00-0  
EC No: 200-579-1  
UFI: U0QF-80JD-100C-06CU

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

#### Use of the substance/mixture

Laboratory chemical  
Industrial uses: Uses of substances as such or in preparations at industrial sites  
Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name: Fa. Bernd Kraft GmbH  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0 Telefax: 0203/5194-290  
e-mail: info@berndkraft.de  
Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117  
e-mail: produktsicherheit@berndkraft.de  
Internet: www.berndkraft.de  
Responsible Department: Abteilung Produktsicherheit

### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### Further Information

No data available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Flam. Liq. 3; H226  
Acute Tox. 3; H331  
Acute Tox. 4; H302  
Skin Corr. 1A; H314

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

formic acid

Signal word: Danger

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Formic acid 98 - 100 % pure

Revision date: 12.01.2022

Product code: 05311

Page 2 of 12

#### Pictograms:



#### Hazard statements

- H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H331 Toxic if inhaled.  
H314 Causes severe skin burns and eye damage.

#### Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260  
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.  
P310 Immediately call a POISON CENTER/doctor.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Sum formula: CH<sub>2</sub>O<sub>2</sub>  
Molecular weight: 46,03 g/mol

#### Hazardous components

| CAS No  | Chemical name   |              |                       | Quantity |
|---------|---|--------------|-----------------------|----------|
|         | EC No   | Index No     | REACH No              |          |
|         | Classification (Regulation (EC) No 1272/2008)                                       |              |                       |          |
| 64-18-6 | formic acid   |              |                       | 100 %    |
|         | 200-579-1   | 607-001-00-0 | 01-2119491174-37-XXXX |          |
|         | Flam. Liq. 3, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1A; H226 H331 H302 H314 EUH071 |              |                       |          |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No  | EC No     | Chemical name  | Quantity |
|---------|-----------|--|----------|
|         |           | Specific Conc. Limits, M-factors and ATE   |          |
| 64-18-6 | 200-579-1 | formic acid  | 100 %    |
|         |           | inhalation: LC50 = 7,85 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 730 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 10 - < 90 Skin Irrit. 2; H315: >= 2 - < 10 Eye Irrit. 2; H319: >= 2 - < 10 |          |

#### Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

### SECTION 4: First aid measures

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 3 of 12

**4.1. Description of first aid measures**

**General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Take off immediately all contaminated clothing and wash it before reuse.

**After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

**After contact with skin**

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

**4.2. Most important symptoms and effects, both acute and delayed**

Dyspnoea  
Irritation to respiratory tract  
Risk of serious damage to eyes.  
Conjunctival oedema (chemosis).  
strongly corrosive.

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

**Unsuitable extinguishing media**

no restriction

**5.2. Special hazards arising from the substance or mixture**

Combustible liquids  
In case of warming: Vapours can form explosive mixtures with air.  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
Hazardous combustion products  
In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Danger of bursting container.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 4 of 12

**General advice**

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

**For non-emergency personnel**

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

**For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

**6.3. Methods and material for containment and cleaning up**

**For containment**

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe vapour/aerosol.

Read label before use.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

In case of warming: Vapours can form explosive mixtures with air.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 5 of 12

**Further information on handling**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container dry.  
Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.  
Close containers in such a way to enable internal pressure to escape (e.g. excess pressure valve).

**Hints on joint storage**

TRGS 510

**Further information on storage conditions**

Protect against: Light  
Keep cool. Protect from sunlight.  
Corrosive to metals.  
Unsuitable container/equipment material: Metal

**7.3. Specific end use(s)**

Laboratory chemicals

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

**8.1. Control parameters**

**Occupational exposure limits**

| CAS No  | Substance   | ppm | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category  | Origin |
|---------|-------------|-----|-------------------|---------------------|-----------|--------|
| 64-18-6 | Formic acid | 5   | 9                 |                     | TWA (8 h) |        |

**DNEL/DMEL values**

| CAS No                   | Substance   | Exposure route | Effect | Value                 |
|--------------------------|-------------|----------------|--------|-----------------------|
| 64-18-6                  | formic acid |                |        |                       |
| Consumer DNEL, long-term |             | inhalation     | local  | 3 mg/m <sup>3</sup>   |
| Worker DNEL, long-term   |             | inhalation     | local  | 9,5 mg/m <sup>3</sup> |

**PNEC values**

| CAS No   | Substance   | Value      |
|--|-------------|------------|
| 64-18-6  | formic acid |            |
| Freshwater                                       |             | 2 mg/l     |
| Freshwater (intermittent releases)               |             | 1 mg/l     |
| Marine water                                     |             | 0,2 mg/l   |
| Freshwater sediment                              |             | 13,4 mg/kg |
| Marine sediment                                  |             | 1,34 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |             | 7,2 mg/l   |
| Soil   |             | 1,5 mg/kg  |

**8.2. Exposure controls**

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 6 of 12

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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

**Eye/face protection**

Suitable eye protection: goggles.

Face protection shield

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation KCL 720 Camapren®

Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 mm

Wearing time with permanent contact: >480 min

By short-term hand contact

Trade name/designation KCL 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with occasional contact (splashes): >480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet <(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Skin protection**

Wear suitable protective clothing.

Material, acid-resistant

Wear fire resistant or flame retardant clothing.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device with filter or ventilator filtering device of type: E-(P3)

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

**SECTION 9: Physical and chemical properties**

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

|                  |                   |
|------------------|-------------------|
| Physical state:  | Liquid            |
| Colour:          | colourless        |
| Odour:           | stinging          |
| Odour threshold: | No data available |

**Changes in the physical state**

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 7 of 12

Melting point/freezing point: 4 °C  
Boiling point or initial boiling point and boiling range: 100,23 °C  
Sublimation point: No data available  
Softening point: No data available  
Pour point: No data available  
No data available:

Flash point: 49,5 °C

**Flammability**

Solid/liquid: not applicable  
Gas: not applicable

**Explosive properties**

In case of warming: Vapours can form explosive mixtures with air.

Lower explosion limits: 12 vol. %  
Upper explosion limits: 38 vol. %  
Auto-ignition temperature: 520 °C

**Self-ignition temperature**

Solid: not applicable  
Gas: not applicable

Decomposition temperature: 350 °C

pH-Value (at 20 °C): acidic

Viscosity / dynamic: 1,8 mPa·s  
(at 20 °C)

Viscosity / kinematic: No data available

Flow time: No data available

**Solubility in other solvents**

No data available

Dissolution rate: No data available

Partition coefficient n-octanol/water: No data available

Dispersion stability: No data available

Vapour pressure: 42,71 hPa  
(at 20 °C)

Vapour pressure: 42,71 hPa  
(at 50 °C)

Density: 1,22 g/cm<sup>3</sup>

Bulk density: No data available

Relative vapour density: No data available

Particle characteristics: No data available

**9.2. Other information**

**Information with regard to physical hazard classes**

Sustaining combustion: No data available

Oxidizing properties

Not oxidising.

**Other safety characteristics**

Solvent separation test: No data available

Solvent content: No data available

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 8 of 12

Solid content: 0

Evaporation rate: No data available

**Further Information**

Corrosive to metals.

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Flammable.

In case of warming: Vapours can form explosive mixtures with air.

**10.2. Chemical stability**

slow decomposition

Protect against:

Light

Heat

**10.3. Possibility of hazardous reactions**

Reaction with:

Alkali (lye)

Oxidising agent, strong

sulphuric acid

Catalyst (Metal)

Phosphorus oxides

Nitric acid

NO<sub>3</sub>

Ignition hazard: Aluminium

Explosion hazard with: , Hydrogen peroxide

Exothermic reaction with: Alkali (lye), Amines

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

In case of warming: Vapours can form explosive mixtures with air.

Light

**10.5. Incompatible materials**

Corrosive to metals.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

**Further information**

No data available

**SECTION 11: Toxicological information**

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

**Toxicokinetics, metabolism and distribution**

No data available

**Acute toxicity**

Toxic if inhaled.

Harmful if swallowed.

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 9 of 12

| CAS No  | Chemical name           |                      |         |                     |                    |
|---------|-------------------------|----------------------|---------|---------------------|--------------------|
|         | Exposure route          | Dose                 | Species | Source              | Method             |
| 64-18-6 | formic acid             |                      |         |                     |                    |
|         | oral                    | LD50<br>mg/kg 730    | Rat     | Study report (1985) | OECD Guideline 401 |
|         | dermal                  | LD50<br>mg/kg > 2000 | Rat     | Study report (2007) | OECD Guideline 402 |
|         | inhalation (4 h) vapour | LC50 7,85 mg/l       | Rat     | Study report (1980) | OECD Guideline 403 |
|         | inhalation dust/mist    | ATE 0,5 mg/l         |         |                     |                    |

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**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.

**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards**

**Other information**

gastric perforation

Pulmonary oedema, Conjunctival oedema (chemosis)., Risk of serious damage to eyes.

**Further information**

Cough

Dyspnoea

**SECTION 12: Ecological information**

**12.1. Toxicity**

The product has not been tested.

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 10 of 12

| CAS No  | Chemical name            |               |           |         |                                 |   |
|---------|--------------------------|---------------|-----------|---------|---------------------------------|---|
|         | Aquatic toxicity         | Dose          | [h]   [d] | Species | Source                          | Method                                    |
| 64-18-6 | formic acid              |               |           |         |                                 |   |
|         | Acute fish toxicity      | LC50          | 130 mg/l  | 96 h    | Danio rerio                     | Study report (2005)<br>OECD Guideline 203 |
|         | Acute algae toxicity     | ErC50<br>mg/l | 1240      | 72 h    | Pseudokirchneriella subcapitata | Study report (2005)<br>OECD Guideline 201 |
|         | Acute crustacea toxicity | EC50          | 365 mg/l  | 48 h    | Daphnia magna                   | Study report (2005)<br>OECD Guideline 202 |
|         | Crustacea toxicity       | NOEC<br>mg/l  | >= 100    | 21 d    | Daphnia magna                   | Study report (2007)<br>OECD Guideline 211 |

**12.2. Persistence and degradability**

Readily biodegradable (according to OECD criteria). 100 %; 28 d; aerob

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

Does not significantly accumulate in organisms.

**Partition coefficient n-octanol/water**

| CAS No  | Chemical name | Log Pow |
|---------|---------------|---------|
| 64-18-6 | formic acid   | -2,1    |

**BCF**

| CAS No  | Chemical name | BCF  | Species | Source               |
|---------|---------------|------|---------|----------------------|
| 64-18-6 | formic acid   | 3,16 |         | Other company data ( |

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

No data available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

|  |             |
|--|-------------|
| <b>14.1. UN number or ID number:</b>     | UN 1779     |
| <b>14.2. UN proper shipping name:</b>    | formic acid |
| <b>14.3. Transport hazard class(es):</b> | 8           |

**Formic acid 98 - 100 % pure**

Revision date: 12.01.2022

Product code: 05311

Page 11 of 12

**14.4. Packing group:** II  
Hazard label: 8+3  
Classification code: CF1  
Limited quantity: 1 L  
Excepted quantity: E2  
Transport category: 2  
Hazard No: 83  
Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1779  
**14.2. UN proper shipping name:** formic acid  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8+3  
Classification code: CF1  
Limited quantity: 1 L  
Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1779  
**14.2. UN proper shipping name:** FORMIC ACID  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8+3  
Special Provisions: -  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-E, S-C

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1779  
**14.2. UN proper shipping name:** Formic acid  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8+3  
Limited quantity Passenger: 0.5 L  
Passenger LQ: Y840  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 851  
IATA-max. quantity - Passenger: 1 L  
IATA-packing instructions - Cargo: 855  
IATA-max. quantity - Cargo: 30 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Combustible liquid. strongly corrosive.

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

not applicable

**SECTION 15: Regulatory information**

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

**EU regulatory information**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Formic acid 98 - 100 % pure

Revision date: 12.01.2022

Product code: 05311

Page 12 of 12

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 5,7,8,9,10,11,12,13,15.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Harmonized 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  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

#### Relevant H and EUH statements (number and full text)

|        |  |
|--------|--|
| H226   | Flammable liquid and vapour.             |
| H302   | Harmful if swallowed.                    |
| H314   | Causes severe skin burns and eye damage. |
| H331   | Toxic if inhaled.                        |
| EUH071 | Corrosive to the respiratory tract.      |

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.