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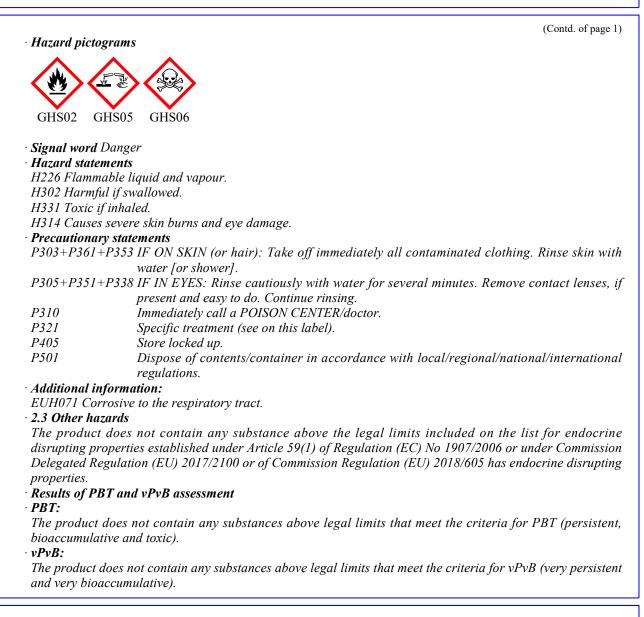
| 1.1 Product i   | dontifior  |
|---|--|
|   | Formic acid 85 % techn.  |
| Article numb  |  |
| CAS Number  |  |
| 64-18-6   |  |
| <b>EC number:</b> 200-579-1   |  |
| Index numbe   | er:  |
| 507-001-00-0  |  |
|   | number 01-2119491174-37  |
|   | <b>identified uses of the substance or mixture and uses advised against</b><br>levant information available.   |
| Application a   | of the substance / the mixture   |
| Chemical.<br>Intermediate   | product, metal pickling, pH value control in the textile and leather industry, preservative, etc.  |
|   |  |
| 1.3 Details oj<br>Manufacture   | f the supplier of the safety data sheet<br>ar/Supplier:  |
| Möller Chem   | ie GmbH & Co. KG   |
| Bürgerkamp<br>D-48565 Stei  |  |
| Tel.: 02551/9   |  |
| Fax: 02551/9  | 340-60   |
|   | rmation obtainable from: Product safety department   |
|   | <b>cy telephone number:</b><br>ol Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240  |
| Oison Conir   |  |
|   | or Center Muni2 - 24 nour emergency service - 1et. +47 (0) 0151/17240  |
|   |  |
|   | 2: Hazards identification  |
| SECTION<br>2.1 Classifica   | 2: Hazards identification<br>ttion of the substance or mixture   |
| SECTION<br>2.1 Classifica   | 2: Hazards identification  |
| SECTION<br>2.1 Classifica<br>Classification   | 2: Hazards identification<br>ation of the substance or mixture<br>according to Regulation (EC) No 1272/2008  |
| SECTION<br>2.1 Classifica<br>Classification   | 2: Hazards identification<br>ttion of the substance or mixture   |
| SECTION<br>2.1 Classifica<br>Classification<br>GF   | 2: Hazards identification<br>ation of the substance or mixture<br>according to Regulation (EC) No 1272/2008  |
| SECTION<br>2.1 Classifica<br>Classification<br>GF   | 2: Hazards identification<br>ation of the substance or mixture<br>a according to Regulation (EC) No 1272/2008<br>ISO2 flame  |
| SECTION<br>2.1 Classification<br>Classification<br>GH<br>Flam. Liq. 3   | 2: Hazards identification<br>ation of the substance or mixture<br>a according to Regulation (EC) No 1272/2008<br>ISO2 flame  |
| SECTION<br>2.1 Classification<br>Classification<br>GH<br>Flam. Liq. 3   | 2: Hazards identification<br>ation of the substance or mixture<br>a according to Regulation (EC) No 1272/2008<br>HS02 flame<br>H226 Flammable liquid and vapour.   |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3   | 2: Hazards identification<br>ation of the substance or mixture<br>a according to Regulation (EC) No 1272/2008<br>HS02 flame<br>H226 Flammable liquid and vapour.   |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3   | 2: Hazards identification<br>ation of the substance or mixture<br>according to Regulation (EC) No 1272/2008<br>HS02 flame<br>H226 Flammable liquid and vapour.<br>HS06 skull and crossbones  |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3<br>Flam. Liq. 3<br>GF<br>Acute Tox. 3   | 2: Hazards identification<br>ation of the substance or mixture<br>according to Regulation (EC) No 1272/2008<br>HS02 flame<br>H226 Flammable liquid and vapour.<br>HS06 skull and crossbones  |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3<br>Flam. Liq. 3<br>GF<br>Acute Tox. 3   | 2: Hazards identification<br>according to Regulation (EC) No 1272/2008<br>HS02 flame<br>H226 Flammable liquid and vapour.<br>HS06 skull and crossbones<br>H331 Toxic if inhaled.   |
| SECTION<br>2.1 Classification<br>Classification<br>GH<br>Flam. Liq. 3<br>GH<br>Acute Tox. 3<br>Cute Tox. 3<br>GH<br>Skin Corr. 1E   | 2: Hazards identification<br>ttion of the substance or mixture<br>a according to Regulation (EC) No 1272/2008<br>ISO2 flame<br>H226 Flammable liquid and vapour.<br>ISO6 skull and crossbones<br>H331 Toxic if inhaled.<br>ISO5 corrosion<br>B H314 Causes severe skin burns and eye damage.   |
| SECTION<br>2.1 Classification<br>Classification<br>GH<br>Flam. Liq. 3<br>GH<br>Acute Tox. 3<br>Cute Tox. 3<br>GH<br>Skin Corr. 1E   | 2: Hazards identification<br>ttion of the substance or mixture<br>a according to Regulation (EC) No 1272/2008<br>ISO2 flame<br>H226 Flammable liquid and vapour.<br>ISO6 skull and crossbones<br>H331 Toxic if inhaled.<br>ISO5 corrosion  |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3<br>Comparison<br>GF<br>Acute Tox. 3<br>Comparison<br>GF<br>Skin Corr. 1E<br>Eye Dam. 1  | 2: Hazards identification<br>according to Regulation (EC) No 1272/2008<br>ISO2 flame<br>H226 Flammable liquid and vapour.<br>ISO6 skull and crossbones<br>H331 Toxic if inhaled.<br>ISO5 corrosion<br>B H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage.   |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3<br>Comparison<br>GF<br>Acute Tox. 3<br>Comparison<br>GF<br>Skin Corr. 1E<br>Eye Dam. 1  | 2: Hazards identification<br>ttion of the substance or mixture<br>a according to Regulation (EC) No 1272/2008<br>ISO2 flame<br>H226 Flammable liquid and vapour.<br>ISO6 skull and crossbones<br>H331 Toxic if inhaled.<br>ISO5 corrosion<br>B H314 Causes severe skin burns and eye damage.   |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3<br>GF<br>Acute Tox. 3<br>Cute Tox. 3<br>Cute Tox. 1<br>Expe Dam. 1<br>Cute Tox. 1<br>Cute | 2: Hazards identification<br>according to Regulation (EC) No 1272/2008<br>HS02 flame<br>H226 Flammable liquid and vapour.<br>HS06 skull and crossbones<br>H331 Toxic if inhaled.<br>HS05 corrosion<br>P H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage.<br>HS07   |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3<br>Control Control<br>Skin Corr. 1E<br>Eye Dam. 1<br>Control Corr. 1E<br>Eye Dam. 1<br>Control Corr. 4  | 2: Hazards identification<br>tion of the substance or mixture<br>according to Regulation (EC) No 1272/2008<br>ISO2 flame<br>H226 Flammable liquid and vapour.<br>ISO6 skull and crossbones<br>H331 Toxic if inhaled.<br>ISO5 corrosion<br>P H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage.<br>H307<br>H302 Harmful if swallowed. |
| SECTION<br>2.1 Classification<br>Classification<br>GF<br>Flam. Liq. 3<br>Control Control<br>Skin Corr. 1E<br>Eye Dam. 1<br>Control Corr. 1E<br>Eye Dam. 1<br>Control Corr. 4<br>Control Control Control<br>Control Control Control Control Control<br>Control Control Control Control<br>Control Control Control Control<br>Control Control Control Control Control<br>Control Control Control Control Control<br>Control Control   | 2: Hazards identification<br>tion of the substance or mixture<br>according to Regulation (EC) No 1272/2008<br>ISO2 flame<br>H226 Flammable liquid and vapour.<br>ISO6 skull and crossbones<br>H331 Toxic if inhaled.<br>ISO5 corrosion<br>P H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage.<br>H307<br>H302 Harmful if swallowed. |

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#### **SECTION 3: Composition/information on ingredients**

- · 3.1 Substances
- · CAS No. Description
- 64-18-6 Formic acid > 85 %
- · Identification number(s)
- EC number: 200-579-1
- Index number: 607-001-00-0

### **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation:
- Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
- After skin contact: Wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

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• After swallowing:

*Rinse out mouth and then drink plenty of water. Do not induce vomiting.* 

Seek medical treatment.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with 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:
- Carbon monoxide, carbon dioxide
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with skin, eyes and clothes. Mount respiratory protective device.
- 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, diatomaceous earth, acid binder, universal binder, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 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

Ensure good ventilation/exhaustion at the workplace.

Keep away from sources of ignition - No smoking

· Information about fire - and explosion protection: Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool place.
- · Information about storage in one common storage facility:
- Do not store together with alkalis (caustic solutions).
- Further information about storage conditions: Keep container tightly sealed.
- · 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: Not required.

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Workers: Short-term, local, inhalation: 19 mg/m3 Long-term, systemic, inhalation: 9,5 mg/m3 Consumer: Short-term, local, inhalation: 9,5 mg/m3 Long-term, systemic, inhalative: 3 mg/m3 **PNECs** Fresh water: 2 mg/l Sea water: 0.2 mg/l sporadic release: 1 mg/l Sediment (fresh water): 13,4 mg/kg Sediment (sea water): 1,34 mg/kg

Soil: 1,5 mg/kg Sewage treatment plant: 7,2 mg/l

• Additional information: The lists valid during the making were used as basis.

· Appropriate engineering controls No further data; see item 7.

- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Avoid contact with the eyes and skin.
- Immediately remove all soiled and contaminated clothing
- Do not inhale gases / fumes / aerosols.

· Respiratory protection:

- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

Chloroprene rubber, CR Butyl rubber, BR Nitrile rubber, NBR Natural rubber, NR

Polyvinyl chloride

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

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

• Eye/face protection



Tightly sealed goggles

· Body protection: Acid resistant protective clothing

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<sup>· 8.2</sup> Exposure controls

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| 9.1 Information on basic physical and chemic            | al properties                                  |
|---|--|
| General Information                                     |  |
| Colour:   | Colourless                                     |
| Odour:  | Pungent  |
| Odour threshold:  | Not determined.                                |
| Melting point/freezing point:                           | -13 °C   |
| Boiling point or initial boiling point and boiling      | ng   |
| range   | 107 °C   |
| Flammability  | Not applicable.                                |
| Lower and upper explosion limit                         | 11   |
| Lower:  | 14.9 Vol %                                     |
| Upper:  | 47.6 Vol %                                     |
| Flash point:  | min. 59 °C                                     |
| Ignition temperature:                                   | 500 °C   |
| Decomposition temperature:                              | Not determined.                                |
| pH (10 g/l) at 20 °C                                    | 2.2  |
| Viscosity:  |  |
| Kinematic viscosity at 20 °C                            | 1.42 mm2/s                                     |
| Dynamic at 20 °C:                                       | 1.7 mPas                                       |
| Solubility  |  |
| water:  | Fully miscible.                                |
| Partition coefficient n-octanol/water (log value        | •  |
| $23 ^{\circ}C$  | -1.9 log KOW (pH-Wert: 5)                      |
| Vapour pressure at 20 °C:                               | 24.2 hPa                                       |
| Density and/or relative density                         |  |
| Density at 20 °C:                                       | 1.195 g/cm <sup>3</sup>                        |
| Relative density  | Not determined.                                |
| Vapour density  | Not determined.                                |
| · ·   |  |
| 9.2 Other information<br>Appearance:                    |  |
| Form:   | Fluid  |
| I orm.<br>Important information on protection of health |  |
| environment, and on safety.                             | i unu  |
| Auto-ignition temperature:                              | Not determined.                                |
| Explosive properties:                                   | Product does not present an explosion hazard.  |
| Change in condition                                     | 1 roduci does noi present di explosion nazara. |
| Evaporation rate  | Not determined.                                |
| •   |  |
| Information with regard to physical hazard clo          |  |
| Explosives  | Void<br>Void                                   |
| Flammable gases   | Void   |
| Aerosols  | Void   |
| Oxidising gases   | Void   |
| Gases under pressure                                    | Void   |
| Flammable liquids                                       |  |
| Flammable liquid and vapour.                            | 17-:1  |
| Flammable solids  | Void   |
| Self-reactive substances and mixtures                   | Void   |
| Pyrophoric liquids                                      | Void   |
| Pyrophoric solids                                       | Void   |
| Self-heating substances and mixtures                    | Void   |
| Substances and mixtures, which emit flammal             |  |
| gases in contact with water                             | Void   |
| I MIAISING HAHIAS                                       | Void   |
| Oxidising liquids<br>Oxidising solids                   | Void   |

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• Corrosive to metals • Desensitised explosives Void Void

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity With proper handling and storage, no dangerous reactions occur.
- 10.2 Chemical stability Slow decomposition possible.
- Thermal decomposition / conditions to be avoided: Temperature:  $> 30^{\circ}C$
- · 10.3 Possibility of hazardous reactions
- Reacts with amines.
- Reacts with alkali (lyes).
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials:
- bases

uncoated metals, common metals

· 10.6 Hazardous decomposition products: Carbon monoxide

### **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Harmful if swallowed. Toxic if inhaled.
- · LD/LC50 values relevant for classification:

Inhalative LC50/4h 3 mg/l (ATE)

- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- 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.
- Additional toxicological information:

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

· 11.2 Information on other hazards

• Endocrine disrupting properties Substance is not listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity:
- LC50/96 h: 130 mg/l (Brachydanio rerio)
- LC50/96 h: 68 mg/l (Leuciscus idus)
- EC50/48 h: 365 mg/l (Daphnia magna)
- EC50/17 h: 46,7 mg/l (Pseudomonas putida)

· 12.2 Persistence and degradability Easily biodegradable

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#### · 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
- **vPvB:** This substance is not considered to be very persistent nor very bioaccumulative (vPvB).
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- CSB-value: 318 mg/g
- BSB5-value: 86 mg/g
- Additional ecological information:

#### · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

• *Recommendation Disposal according to local regulations.* 

• Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

| 14.1 UN number or ID number<br>ADR, IMDG, IATA | UN1779                               |  |
|--|--------------------------------------|--|
|  | 0.000                                |  |
| 14.2 UN proper shipping name<br>ADR            | 1779 FORMIC ACID                     |  |
| IMDG, IATA                                     | FORMIC ACID                          |  |
| 14.3 Transport hazard class(es)                |                                      |  |
| ADR  |                                      |  |
|  |                                      |  |
| Class  | 8 (CF1) Corrosive substances.<br>8+3 |  |
|  | 8+3                                  |  |
| IMDG   |                                      |  |
|  |                                      |  |
| Class  | 8 Corrosive substances.              |  |
| Class  | 8 Corrosive substances.              |  |

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|---|--|
| IATA  |  |
|   |  |
| Class   | 8 Corrosive substances.                          |
| Label   | 8 (3)  |
| 14.4 Packing group                              |  |
| ADR, IMDG, IATA                                 | II   |
| 14.5 Environmental hazards:                     |  |
| Marine pollutant:                               | No   |
| 14.6 Special precautions for user               | Warning: Corrosive substances.                   |
| Hazard identification number (Kemler code):     | 83   |
| EMS Number:                                     | F-A,S-B  |
| Segregation groups                              | (SGG1) Acids                                     |
| Stowage Category                                |  |
| Segregation Code                                | SG36 Stow "separated from" SGG18-alkalis.        |
|   | SG49 Stow "separated from" SGG6-cyanides         |
| 14.7 Maritime transport in bulk according to IM |  |
| instruments                                     | Not applicable.                                  |
| Transport/Additional information:               |  |
| ADR   |  |
| Limited quantities (LQ)                         | 1L   |
| Excepted quantities (EQ)                        | Code: E2   |
|   | Maximum net quantity per inner packaging: 30 ml  |
| _   | Maximum net quantity per outer packaging: 500 ml |
| Transport category                              | 2  |
| Tunnel restriction code                         | D/E  |
| IMDG  |  |
| Limited quantities (LQ)                         | 1L   |
| Excepted quantities (EQ)                        | Code: E2   |
|   | Maximum net quantity per inner packaging: 30 ml  |
|   | Maximum net quantity per outer packaging: 500 ml |
| UN "Model Regulation":                          | UN 1779 FORMIC ACID, 8 (3), II                   |

### **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- **REGULATION (EC)** No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II Substance is not listed.
- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- Substance is not listed.
- · Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.

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(Contd. of page 8) • Regulation (EC) No 273/2004 on drug precursors Substance is not listed. • Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed. • 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out. **SECTION 16: Other information** This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. · Department issuing SDS: Product safety department · Contact: Mrs. Steyer · Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) 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 Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1