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

- 1.1 Product identifier
- Trade name: LUBA-print® 749/PM
- UFI: 20F0-P08T-306K-NGTP

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.
- Application of the substance / the mixture Wax additive for paints and printing inks

- 1.3 Details of the supplier of the safety data sheet
  Manufacturer/Supplier: MÜNZING CHEMIE GmbH
  Munzingstrasse 2
  74232 Abstatt, Germany
  E-Mail: info@munzing.com
  Tel.: +49 7131 987-100

- Further information obtainable from:
  Product Safety Department
  E-mail (MSDS): mds@munzing.com

- 1.4 Emergency telephone number: For Chemical Emergencies: CHEMTREC: +1 703 741 5970

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
  Classification according to Regulation (EC) No 1272/2008
  Flam. Liq. 3 H226 Flammable liquid and vapour.
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2 H319 Causes serious eye irritation.
  STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- 2.2 Label elements
  Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
  Hazard pictograms
  GHS02 GHS07 GHS08

- Signal word Warning

- Hazard-determining components of labelling:
  xylene
  1-methoxy-2-propanol
  ethylbenzene

- Hazard statements
  H226 Flammable liquid and vapour.
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
  H373 May cause damage to organs through prolonged or repeated exposure.

- Precautionary statements
  P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Reg.nr.</th>
<th>xylene</th>
<th>Flam. Liq. 3; H226; STOT RE 2; H373; Asp. Tox. 1; H304; Acute Tox. 4; H312; Acute Tox. 4; H322; Skin Irrit. 2; H315; Eye Irrit. 2; H319; STOT SE 3, H335</th>
<th>20-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>215-535-7</td>
<td>01-2119488216-32</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Reg.nr.</th>
<th>1-methoxy-2-propanol</th>
<th>Flam. Liq. 3; H226; STOT SE 3, H336</th>
<th>20-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-98-2</td>
<td>203-539-1</td>
<td>01-2119457435-35</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Reg.nr.</th>
<th>ethylbenzene</th>
<th>Flam. Liq. 2; H223; STOT RE 2; H373; Asp. Tox. 1; H304; Acute Tox. 4</th>
<th>10-20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-41-4</td>
<td>202-849-4</td>
<td>01-2119489370-35</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- Immediately remove any clothing soiled by the product.
- After inhalation:
Take affected persons into fresh air and keep quiet.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.

- 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

(Contd. on page 3)
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 fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.
5.3 Advice for firefighters
- Protective equipment: Do not inhale explosion gases or combustion gases.
- Additional information
  Cool endangered receptacles with water spray.
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
- Ensure adequate ventilation
- Keep away from ignition sources.
- Wear protective clothing.
- Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:
- Do not allow to penetrate the ground/soil.
- Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
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
- Store in cool, dry place in tightly closed receptacles.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Information about fire - and explosion protection:
  - Keep ignition sources away - Do not smoke.
  - Protect from heat.
  - 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 location.
  - Information about storage in one common storage facility: Store away from oxidising agents.
  - Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
### SECTION 8: Exposure controls/personal protection

- **7.3 Specific end use(s) No further relevant information available.**

**Additional information about design of technical facilities:** No further data; see item 7.

#### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS</th>
<th>WEL</th>
<th>Long-term value: 375 mg/m³, 100 ppm Sk</th>
<th>Long-term value: 560 mg/m³, 150 ppm Sk</th>
</tr>
</thead>
<tbody>
<tr>
<td>sk</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WEL Short-term value:** 560 mg/m³, 150 ppm

- According to 1907/2006/EC, Article 31

**CAS: 100-41-4 ethylbenzene**

<table>
<thead>
<tr>
<th>WEL</th>
<th>Short-term value: 352 mg/m³, 125 ppm Sk</th>
<th>Long-term value: 441 mg/m³, 100 ppm Sk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sk</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WEL Short-term value:** 441 mg/m³, 100 ppm

**CAS: 1030-20-7 xylene**

| Oral | consumer, long-term exposure, systemic effects | 1.6 mg/kg bw/day (human) |
| Dermal | consumer, long-term exposure, systemic effects | 180 mg/kg bw/day (human) |
| Inhalative | worker, long-term exposure, systemic effects | 77 mg/m³ (human) |
|          | consumer, short-term exposure, local effects | 14.8 mg/m³ (human) |
|          | consumer, long-term exposure, systemic effects | 174 mg/m³ (human) |

**CAS: 107-98-2 1-methoxy-2-propanol**

| Oral | consumer, long-term exposure, systemic effects | 3.3 mg/kg bw/day (human) |
| Dermal | consumer, long-term exposure, systemic effects | 50.6 mg/kg bw/day (human) |
| Inhalative | worker, long-term exposure, systemic effects | 18.1 mg/kg bw/day (human) |
|          | consumer, long-term exposure, systemic effects | 369 mg/m³ (human) |
|          | consumer, long-term exposure, systemic effects | 43.9 mg/m³ (human) |

**CAS: 100-41-4 ethylbenzene**

| Oral | consumer, long-term exposure, systemic effects | 1.6 mg/kg bw/day (human) |
| Dermal | consumer, long-term exposure, systemic effects | 180 mg/kg bw/day (human) |
| Inhalative | worker, long-term exposure, systemic effects | 77 mg/m³ (human) |
|          | consumer, short-term exposure, local effects | 14.8 mg/m³ (human) |
|          | consumer, short-term exposure, systemic effects | 174 mg/m³ (human) |

**CAS: 100-41-4 ethylbenzene**

| Oral | consumer, long-term exposure, systemic effects | 1.6 mg/kg bw/day (human) |
| Dermal | consumer, long-term exposure, systemic effects | 180 mg/kg bw/day (human) |
| Inhalative | worker, long-term exposure, systemic effects | 77 mg/m³ (human) |
|          | consumer, short-term exposure, local effects | 14.8 mg/m³ (human) |
|          | consumer, short-term exposure, systemic effects | 174 mg/m³ (human) |

**CAS: 100-41-4 ethylbenzene**

| Oral | consumer, long-term exposure, systemic effects | 1.6 mg/kg bw/day (human) |
| Dermal | consumer, long-term exposure, systemic effects | 180 mg/kg bw/day (human) |
| Inhalative | worker, long-term exposure, systemic effects | 77 mg/m³ (human) |
|          | consumer, short-term exposure, local effects | 14.8 mg/m³ (human) |
|          | consumer, short-term exposure, systemic effects | 174 mg/m³ (human) |
Trade name: LUBA-print® 749/PM

(Contd. of page 4)

<table>
<thead>
<tr>
<th>PNECs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 1330-20-7 xylene</td>
</tr>
<tr>
<td>fresh water</td>
</tr>
<tr>
<td>marine water</td>
</tr>
<tr>
<td>aqua - intermittent release</td>
</tr>
<tr>
<td>soil</td>
</tr>
<tr>
<td>sediment (fresh water)</td>
</tr>
<tr>
<td>sediment (marine water)</td>
</tr>
<tr>
<td>sewage treatment plant</td>
</tr>
</tbody>
</table>

| CAS: 107-98-2 1-methoxy-2-propanol |
| fresh water | 10 mg/l (not specified) |
| marine water | 1 mg/l (not specified) |
| soil | 2.47 mg/kg (not specified) |
| sediment (fresh water) | 41.6 mg/kg (not specified) |
| sediment (marine water) | 4.17 mg/kg (not specified) |
| sewage treatment plant | 100 mg/l (not specified) |

- **Ingredients with biological limit values:**
  
  **CAS: 1330-20-7 xylene**
  
  BMGV 650 mmol/mol creatinine  
  Medium: urine  
  Sampling time: post shift  
  Parameter: methyl hippuric acid

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

  8.2 **Exposure controls**
  
  **Personal protective equipment:**
  
  **General protective and hygienic measures:**
  
  Keep away from foodstuffs, beverages and feed.  
  Immediately remove all soiled and contaminated clothing.  
  Wash hands before breaks and at the end of work.  
  Avoid contact with the eyes and skin.

  **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.

  **Protection of hands:**
  
  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**
  
  Butyl rubber, BR  
  Recommended thickness of the material: ≥ 0.5 mm  
  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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 6)
Safety data sheet  
according to 1907/2006/EC, Article 31  

Printing date 21.01.2020  
Revision: 03.04.2018

Trade name: LUBA-print® 749/PM

(Contd. of page 5)

- Penetration time of glove material
  For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).
  The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- Eye protection: Tightly sealed goggles
- Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>· 9.1 Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>· General Information</td>
</tr>
<tr>
<td>· Appearance:</td>
</tr>
<tr>
<td>Form: Fluid</td>
</tr>
<tr>
<td>Colour: Yellowish</td>
</tr>
<tr>
<td>Odour: Specific type</td>
</tr>
<tr>
<td>Odour threshold: Not determined.</td>
</tr>
<tr>
<td>· pH-value: Not determined.</td>
</tr>
<tr>
<td>· Change in condition</td>
</tr>
<tr>
<td>Melting point/freezing point: Undetermined.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range: ≈ 120 °C (1-methoxy-2-propanol)</td>
</tr>
<tr>
<td>· Flash point: ≈ 25 °C (DIN EN ISO 2719)</td>
</tr>
<tr>
<td>· Flammability (solid, gas): Not applicable.</td>
</tr>
<tr>
<td>· Ignition temperature: ≈ 287 °C (1-methoxy-2-propanol)</td>
</tr>
<tr>
<td>· Decomposition temperature: Not determined.</td>
</tr>
<tr>
<td>· Auto-ignition temperature: Product is not self-igniting.</td>
</tr>
<tr>
<td>· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</td>
</tr>
<tr>
<td>· Explosion limits:</td>
</tr>
<tr>
<td>Lower: ≈ 1 Vol % (xylene)</td>
</tr>
<tr>
<td>Upper: ≈ 13.7 Vol % (1-methoxy-2-propanol)</td>
</tr>
<tr>
<td>· Oxidising properties: None.</td>
</tr>
<tr>
<td>· Vapour pressure: Not determined.</td>
</tr>
<tr>
<td>· Density at 20 °C: ≈ 0.88 g/cm³ (DIN EN ISO 2811-1)</td>
</tr>
<tr>
<td>· Relative density: Not determined.</td>
</tr>
<tr>
<td>· Vapour density: Not determined.</td>
</tr>
<tr>
<td>· Evaporation rate: Not determined.</td>
</tr>
<tr>
<td>· Solubility in / Miscibility with water: Insoluble.</td>
</tr>
<tr>
<td>· Partition coefficient: n-octanol/water: Not determined.</td>
</tr>
<tr>
<td>· Viscosity:</td>
</tr>
<tr>
<td>Dynamic at 23 °C: ≈ 40 mPas (DIN EN ISO 3219)</td>
</tr>
<tr>
<td>Kinematic at 40 °C: &gt; 20.5 mm²/s (DIN EN ISO 51562)</td>
</tr>
<tr>
<td>· Solvent separation test: Not determined</td>
</tr>
</tbody>
</table>

(Contd. on page 7)
### SECTION 10: Stability and reactivity

- **10.1 Reactivity**: No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**: No dangerous reactions known.
- **10.4 Conditions to avoid**: No further relevant information available.
- **10.5 Incompatible materials**: No further relevant information available.
- **10.6 Hazardous decomposition products**: No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**: Based on available data, the classification criteria are not met.

#### LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalative LC50/4h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330-20-7</td>
<td>xylene</td>
<td>4,300 mg/kg (rat)</td>
<td>2,000 mg/kg (rabbit)</td>
<td>11 mg/l (rat)</td>
</tr>
<tr>
<td>107-98-2</td>
<td>1-methoxy-2-propanol</td>
<td>4,016 mg/kg (rat)</td>
<td>&gt;2,000 mg/kg (rabbit)</td>
<td>&gt;25.8 mg/l (rat)</td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>3,500 mg/kg (rat)</td>
<td>17,800 mg/kg (rabbit)</td>
<td>17.2 mg/l (rat)</td>
</tr>
</tbody>
</table>

- **Primary irritant effect**
- **Skin corrosion/irritation**: Causes skin irritation.
- **Serious eye damage/irritation**: Causes serious eye irritation.
- **Respiratory or skin sensitisation**: Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.
- **STOT-single exposure**: May cause respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure**: May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**: Based on available data, the classification criteria are not met.
SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

<table>
<thead>
<tr>
<th>CAS: 1330-20-7 xylene</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50</td>
<td>2.2 mg/l (alga) (Pseudokirchneriella subcapitata / 72 h)</td>
</tr>
<tr>
<td>LC50</td>
<td>2.6 mg/l (fish) (Onchorhynchus mykiss / 96 h)</td>
</tr>
<tr>
<td>IC50</td>
<td>1 mg/l (daphnia) (Daphnia magna / 24 h)</td>
</tr>
<tr>
<td>NOEC</td>
<td>0.44 mg/l (alga) (Pseudokirchneriella subcapitata / 72 h)</td>
</tr>
<tr>
<td></td>
<td>157 mg/l (bacteria) (activated sludge)</td>
</tr>
<tr>
<td></td>
<td>&gt;1.3 mg/l (fish) (Onchorhynchus mykiss / 56 d)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 107-98-2 1-methoxy-2-propanol</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50</td>
<td>21,100 mg/l (daphnia) (Daphnia magna / 48 h)</td>
</tr>
<tr>
<td></td>
<td>≥1,000 mg/l (fish) (Onchorhynchus mykiss / 96 h)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 100-41-4 ethylbenzene</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 (static)</td>
<td>5.4 mg/l (alga) (Pseudokirchneriella subcapitata / 72 h)</td>
</tr>
<tr>
<td></td>
<td>&gt;12 mg/l (bacteria) (bacteria / 16 h)</td>
</tr>
<tr>
<td></td>
<td>2.4 mg/l (daphnia) (Daphnia magna / 48 h)</td>
</tr>
<tr>
<td>LC50</td>
<td>12.1 mg/l (fish) (Pimephales promelas / 96 h)</td>
</tr>
<tr>
<td>NOEC</td>
<td>3.4 mg/l (alga) (Pseudokirchneriella subcapitata / 72 h)</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxic effects:

Behaviour in sewage processing plants:
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations. Do not release untreated into natural waters.

Additional ecological information:

General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment
According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

07 07 04* other organic solvents, washing liquids and mother liquors
Trade name: LUBA-print® 749/PM

(Contd. of page 8)

SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR/RID/ADN, IMDG, IATA: UN1993

- **14.2 UN proper shipping name**
  - ADR/RID/ADN: 1993 FLAMMABLE LIQUID, N.O.S. (XYLENES, ETHYLBENZENE)
  - IMDG, IATA: FLAMMABLE LIQUID, N.O.S. (XYLENES, ETHYLBENZENE)

- **14.3 Transport hazard class(es)**
  - ADR/RID/ADN, IMDG, IATA

  - **Class**
    - 3 Flammable liquids.

  - **Label**
    - III

- **14.4 Packing group**
  - ADR/RID/ADN, IMDG, IATA: III

- **14.5 Environmental hazards:**
  - Not applicable.

- **14.6 Special precautions for user**
  - **Warning:** Flammable liquids.
  - **Hazard identification number (Kemler code):**
    - 30
  - **EMS Number:**
    - F-E,S-E
  - **Stowage Category**
    - A

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**
  - **ADR/RID/ADN**
  - **Limited quantities (LQ)**: 5L
  - **Transport category**
    - 3
  - **Tunnel restriction code**
    - D/E

- **UN "Model Regulation":**
  - UN 1993 FLAMMABLE LIQUID, N.O.S. (XYLENES, ETHYLBENZENE), 3, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - Seveso category P5c FLAMMABLE LIQUIDS
  - **Qualifying quantity (tonnes) for the application of lower-tier requirements**
    - 5,000 t

(Contd. on page 10)
Abbreviations and acronyms:
- H312 Harmful in contact with skin.
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- Flam. Liq. 2: Flammable liquids – Category 2

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.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H304 May be fatal if swallowed and enters airways.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H373 May cause damage to organs through prolonged or repeated exposure.

- Department issuing SDS:
  Product Safety Department
  E-Mail: msds@munzing.com

- 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 Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Acute Tox. 4: Acute toxicity - dermal – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  - Asp. Tox. 1: Aspiration hazard – Category 1