1.4 Emergency telephone number:

· Trade name: LUBA-print® 280 AG

The product is not classified as hazardous, according to the CLP regulation.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Additional information:
  Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
  Safety data sheet available on request.

2.3 Other hazards
- Results of PBT and vPvB assessment
  - PBT: None.
  - vPvB: None.

3.2 Chemical characterisation: Mixtures
- Description: wax emulsion

<table>
<thead>
<tr>
<th>Component</th>
<th>Solvent</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-amino-2-methylpropanol</td>
<td>1-&lt;3%</td>
</tr>
<tr>
<td>Skin Irrit. 2, H315, Eye Irrit. 2, H319, Aquatic Chronic 3, H415</td>
<td></td>
</tr>
</tbody>
</table>

4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
7.3 Specific end use(s)

The product is not flammable.

See Section 13 for disposal information.

· Protective equipment:
  Product contains water and is non-combustible.
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

4.3 Indication of any immediate medical attention and special treatment needed

After swallowing:
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

No further relevant information available.

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

4.1 Symptoms and effects

· In case of contact with eyes: Rinse opened eye for several minutes under running water. Then consult a doctor.

5.1 Extinguishing media

· Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

· Protective equipment: Do not inhale explosion gases or combustion gases.

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

6.2 Environmental precautions:

· Dilute with plenty of water.
  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).

6.4 Reference to other sections

· No dangerous substances are released.
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7.1 Precautions for safe handling No special precautions are necessary if used correctly.

· Information about fire - and explosion protection:
  The product is not flammable.
  Protect from heat.

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: Not required.
  · Further information about storage conditions:
    · Protect from frost.
    · Store in cool, dry conditions in well sealed receptacles.

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

· Store in a cool location.
SECTION 8: Exposure controls/personal protection

· 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:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  · Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls
  · 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.
    · 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:
    Only use chemical-protective gloves with CE-labelling of category III.
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· 9.1 Information on basic physical and chemical properties
  · General Information
    · Appearance:
      · Form: Fluid
      · Colour: White
      · Odour: Specific type
      · Odour threshold: Not determined.
    · pH-value at 20 °C: ≈ 9 (DIN ISO 976)
    · Change in condition
      · Melting point/freezing point: Undetermined.
      · Initial boiling point and boiling range: ≈ 100 °C (water)
    · Flash point: Not applicable.
Safety data sheet  
according to 1907/2006/EC, Article 31

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(Contd. of page 3)

- Flammability (solid, gas): Not applicable.
- Ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not self-igniting.
- Explosive properties: Product does not present an explosion hazard.
  - Explosion limits: Not determined.
  - Lower: Not determined.
  - Upper: Not determined.
  - Oxidising properties: None
  - Vapour pressure: Not determined.
  - Density at 20 °C: ≈ 0.94 g/cm³ (DIN EN ISO 2811-1)
  - Relative density: Not determined.
  - Vapour density: Not determined.
  - Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic at 23 °C: ≈ 36 mPas (DIN EN ISO 3219)
  - Kinematic: Not determined.
- Solvent content:
  - Water: ≈ 60 %
- 9.2 Other information: No further relevant information available.

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:
  - CAS: 124-68-5 2-amino-2-methylpropanol
    - Oral LD50: 2,900 mg/kg (rat)
    - Dermal LD50: ≈ 2,000 mg/kg (rabbit)

- Primary irritant effect:
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.

(Contd. on page 5)
12.6 Other adverse effects

Recommendation:

190 mg/l (fish) (Lepomis macrochirus / 96 h)

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

·

12.4 Mobility in soil

Aquatic toxicity:

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

LC50 (static) 193 mg/l (daphnia) (Daphnia magna / 48 h)

STOT-single exposure

07 07 01* aqueous washing liquids and mother liquors

· Uncleaned packaging:
  · Recommendation: Disposal must be made according to official regulations.
  · Recommended cleansing agents: Water, if necessary together with cleansing agents.

STOT-repeated exposure

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 01* aqueous washing liquids and mother liquors

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

CAS: 124-68-5 2-amino-2-methylpropanol

EC50 (static) 342.9 mg/l (bacteria) (activated sludge / 3 h)

LC50 (static) 193 mg/l (daphnia) (Daphnia magna / 48 h)

190 mg/l (fish) (Lepomis macrochirus / 96 h)

· 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.

· Ecotoxicological 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 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, watercourse 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 14: Transport information

· 14.1 UN-Number
  ADR/RID/ADN, ADN, IMDG, IATA Void

· 14.2 UN proper shipping name
  ADR/RID/ADN, ADN, IMDG, IATA Void

· 14.3 Transport hazard class(es)
  ADR/RID/ADN, ADN, IMDG, IATA Void

· 14.4 Packing group
  ADR/RID/ADN, ADN, IMDG, IATA Void

· 14.5 Environmental hazards:
  Marine pollutant: No

· 14.6 Special precautions for user
  Not applicable.

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

· Transport/Additional information:
  Not a dangerous good to the above specifications.

· UN "Model Regulation": Void

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.

· National regulations:
  Water hazard class: Water hazard class I (German AwSV, Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations
  The restrictions in marketing and using of nonylphenol ethoxylates mentioned in REACH, Annex XVII and the regulation 689/2008/EC concerning the export and import of dangerous chemicals have to be observed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not 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.

· Relevant phrases
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H412 Harmful to aquatic life with long lasting effects.

· 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

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Trade name: LUBA-print® 280 AG

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</td>
<td></td>
</tr>
<tr>
<td>EINECS: European Inventory of Existing Commercial Chemical Substances</td>
<td></td>
</tr>
<tr>
<td>ELINCS: European List of Notified Chemical Substances</td>
<td></td>
</tr>
<tr>
<td>CAS: Chemical Abstracts Service (division of the American Chemical Society)</td>
<td></td>
</tr>
<tr>
<td>LC50: Lethal concentration, 50 percent</td>
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</tr>
<tr>
<td>LD50: Lethal dose, 50 percent</td>
<td></td>
</tr>
<tr>
<td>vPvB: very Persistent and very Bioaccumulative</td>
<td></td>
</tr>
<tr>
<td>PBT: Persistent, Bioaccumulative and Toxic</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2: Skin corrosion/irritation – Category 2</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3</td>
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</table>

* Data compared to the previous version altered.