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

1.1 Product identifier

Trade name: LUBA-print WE 0825

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
Münzingstrasse 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: +49 761 19240 (Vergiftungs-Informations-Zentrale VIZ Freiburg)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1 H318 Causes serious eye damage.

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

GHS05

Signal word Danger

Hazard-determining components of labelling:
Isotridecanol, ethoxylated

Hazard statements
H318 Causes serious eye damage.

Precautionary statements
P280 Wear eye protection / face protection.
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.

Additional information:
Contains Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: None.
vPvB: None.
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: wax emulsion

<table>
<thead>
<tr>
<th>CAS: 69011-36-5</th>
<th>Isotridecanol, ethoxylated</th>
<th>3-&lt;5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 55965-84-9</th>
<th>Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</th>
<th>&lt;0.0015%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC number: 611-341-5</td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=10); Skin Sens. 1, H317</td>
<td></td>
</tr>
</tbody>
</table>

SVHC: None.

Additional information: No further relevant information available.

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; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: If symptoms persist consult doctor.

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

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.

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.

Additional information

Product contains water and is non-combustible.

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: Wear protective clothing.

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, 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.
SECTION 7: Handling and storage

- **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.

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:** Use suitable respiratory protective device only when aerosol or mist is formed.
  - **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.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - **Material of gloves**
    Nitrile rubber, NBR
    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.
  - **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 374 Part 3: Level 6).
    The determined penetration times according to EN 374 part III are not performed under practical conditions.
    Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
  - **Eye protection:** Safety glasses
SECTION 9: Physical and chemical properties

- **General Information**
  - **Form:** Fluid
  - **Colour:** White
  - **Odour:** Specific type
  - **Odour threshold:** Not determined.

- **pH-value at 20°C:** ≈ 7 (DIN ISO 976)

- **Change in condition**
  - **Melting point/freezing point:** Undetermined.
  - **Initial boiling point and boiling range:** ≈ 100 °C (water)

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** Not determined.

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.

- **Oxidising properties:** None

- **Vapour pressure:** Not determined.

- **Density at 20°C:** ≈ 0.96 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:** ≈ 75 mPas (DIN EN ISO 3219)
  - **Kinematic:** Not determined.

- **Solvent content**
  - **Water:** ≈ 55 %

- **Solids content:** ≈ 45 %

- **9.2 Other information**
  - No further relevant information available.
· 10.2 Chemical stability  
  · Thermal decomposition / conditions to be avoided:  
    No decomposition if used and stored 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.

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 69011-36-5 Isotridecanol, ethoxylated</td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>500-2,000 mg/kg (rat) (OECD 423)</td>
</tr>
<tr>
<td>CAS: 55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</td>
<td></td>
</tr>
<tr>
<td>Oral LD50</td>
<td>49.6-75 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</td>
<td>141 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative LC50/4h</td>
<td>0.33 mg/l (rat) (Aerosol)</td>
</tr>
</tbody>
</table>

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

SECTION 12: Ecological information

· 12.1 Toxicity  
  · Aquatic toxicity:  
    CAS: 69011-36-5 Isotridecanol, ethoxylated  
    | EC50 | 1-10 mg/l (algae) (green algae / 72 h) |
    |     | 1-10 mg/l (fish) (Leuciscus idus / 96 h) |
    CAS: 55965-84-9 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  
    | EC50 | 0.018 mg/l (algae) (Pseudokirchneriella subcapitata / 72 h) |
    |     | 4.5 mg/l (bacteria) (activated sludge) |
    |     | 0.16 mg/l (Daphnia magna / 48 h) |
    | LC50 | 0.19 mg/l (fish) (Oncorhynchus mykiss / 96 h) |

· 12.2 Persistence and degradability  
  No further relevant information available.  
· 12.3 Bioaccumulative potential  
  No further relevant information available.
Disposal must be made according to official regulations.

Uncleaned packaging:
- Trade name: LUBA-print WE 0825
- Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the 14.2 UN proper shipping name
  - ADR/RID/ADN, ADN, IMDG, IATA
    - Void
  - Class
    - Void
- Packing group
  - ADR/RID/ADN, IMDG, IATA
    - Void
- Environmental hazards:
  - Marine pollutant: No
- Special precautions for user
  - Not applicable.
- Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.
- Transport/Additional information:
  - Not dangerous according to the above specifications.
- UN "Model Regulation": Void
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Relevant phrases
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H316 May cause an allergic skin reaction.
H317 Causes serious eye damage.
H330 Fatal if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
  - Water hazardous class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- 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
- Abbreviations and acronyms: