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

1.1 Product identifier
- Trade name: LUBA-print® CA 30

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

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 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 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. Safety data sheet available on request.

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>Dangerous components:</th>
<th>CAS: 68920-66-1 Alcohols, C16-18 and C18-unsatd., ethoxylated</th>
<th>1-&lt;5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymer</td>
<td>Aquatic Acute 1, H400, Skin Irrit. 2, H315</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: 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.
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:
  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.

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.
  - **Material of gloves**
    Nitrile rubber, NBR
    Recommended thickness of the material: ≥ 0.2 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**
    The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:** Safety glasses
  - **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Fluid
    - Colour: Yellowish
    - Odour: Specific type
    - Odour threshold: Not determined.
  - **pH-value at 20 °C:**
    ≈ 6 - 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.
Trade name: LUBA-print® CA 30

(Contd. of page 3)

- **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:** ≈ 1.0 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: ≈ 11 mPas (DIN EN ISO 3219)
  - Kinematic: Not determined.
- **Solvent content:**
  - Water: ≈ 70 %
- **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: 68920-66-1 Alcohols, C16-18 and C18-unsatd., ethoxylated
  - Oral LD50 2,000 mg/kg (rat)
- **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.
- **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.

(Contd. on page 5)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.01.2020
Version number 3
Revision: 19.11.2018

Trade name: LUBA-print® CA 30

(Contd. of page 4)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

| CAS: 68920-66-1 Alcohols, C16-18 and C18-unsatd., ethoxylated |
|-------------------|----------------------------------------------------------------|
| EC50              | >1,000 mg/l (bacteria) (Pseudomonas putida)                     |
| LC50              | 1.3 mg/l (fish) (Danio rerio / 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.

Ecototoxic 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, 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 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.

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 |

(Contd. on page 6)
Trade name: LUBA-print® CA 30

(Contd. of page 5)

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

· 14.4 Packing group
  · ADR/RID/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:
    · Waterhazard class: Water hazard class 1 (German AwaSV, 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
  · H315 Causes skin irritation.
  · H400 Very toxic to aquatic life.

· 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)
  · LC50: Lethal concentration, 50 percent
  · LD50: Lethal dose, 50 percent
  · PBT: Persistent, Bioaccumulative and Toxic
  · vPvB: very Persistent and very Bioaccumulative
  · Skin Irrit. 2: Skin corrosion/irritation – Category 2
  · Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

· * Data compared to the previous version altered.