Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.01.2020  Version number 1  Revision: 10.08.2015

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

· 1.1 Product identifier
  · Trade name: LUBA-print® SC 5700
  · UFI: NRH1-K0HT-G002-MNU1

· 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
    Münzingerstrasse 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
  Skin Sens. 1  H317  May cause an allergic skin reaction.

· 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

  GHS07

· Signal word Warning

· Hazard-determining components of labelling:
  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)

· Hazard statements
  H317 May cause an allergic skin reaction.

· Precautionary statements
  P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  P272 Contaminated work clothing should not be allowed out of the workplace.
  P280 Wear protective gloves.
  P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  P321 Specific treatment (see on this label).
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

3.2 Chemical characterisation: Mixtures

- Description: Wax dispersion

### Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 68439-49-6</th>
<th>Alcohols, C16-18, ethoxylated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2, H319</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>
</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=10); Aquatic Chronic 1, H410 (M=10); Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

### Additional information:

- vPvB: None.
- Eye Irrit. 2, H319
- Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Skin Sens. 1, H317

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.
  - For safety reasons unsuitable extinguishing agents: Water with full jet

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 firefighting 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 penetrate the ground/soil.**
- **Dilute with plenty of water.**
- **Do not allow to enter sewers/ surface or ground water.**

(Contd. on page 3)
6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
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.

7.1 Precautions for safe handling  
Keep away from heat and direct sunlight.  
Protect from heat.  
The product is not flammable.

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:  
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: 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.
**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Fluid
    - Colour: White
  - **Odour:** Slight
  - **Odour threshold:** Not determined.
  - **pH-value (20 g/l) at 20 °C:** ≈ 6.5 (DIN ISO 976)
  - **Change in condition**
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: ≈ 100 °C
  - **Flash point:** > 100 °C (DIN EN ISO 2719)
  - **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:** ≈ 0.98 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 20 °C: ≈ 1200 mPas (DIN EN ISO 3219)
  - **Solvent content:**
    - Water: ≈ 50 %
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 Incompatible 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: 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) |
  |-------------|-----------------|-----------------|
  | Oral        | LD50 49.6-75 mg/kg (rat) |
  | Dermal      | LD50 141 mg/kg (rabbit) |
  | Inhalative  | LC50/4h 0.33 mg/l (rat) (Aerosol) |

- 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
    May cause an allergic skin reaction.
  - 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: 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 (alga) (Pseudokirchneriella subcapitata / 72 h) |
  |                 | 4.5 mg/l (bacteria) (activated sludge) |
  |                 | 0.16 mg/l (daphnia) (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.
- 12.4 Mobility in soil No further relevant information available.
Trade name: LUBA-print® SC 5700

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

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(Contd on page 7)
**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.
  - **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
  - **National regulations:**
  - **Waterhazard class:** Water hazard class 1 (German AwSV, Self-assessment): slightly hazardous for water.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**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**
  - H301 Toxic if swallowed.
  - H311 Toxic in contact with skin.
  - H314 Causes severe skin burns and eye damage.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H330 Fatal if inhaled.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic 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
  - 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
  - Acute Tox. 3: Acute toxicity - oral – Category 3
  - Acute Tox. 2: Acute toxicity - inhalation – Category 2
  - Skin Corr.: 1B: Skin corrosion/irritation – Category 1B
  - Eye Irrit.: 2: Serious eye damage/eye irritation – Category 2
  - 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

- *Data compared to the previous version altered.*