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

- **1.1 Product identifier**
  - Trade name: LUBA-print® 942
  - UFI: 17Y0-A0QU-0004-P0XV
- **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): msds@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](image)

- **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.

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: wax emulsion

Dangerous components:

<table>
<thead>
<tr>
<th>CAS:</th>
<th>Polymer</th>
<th>Acute Tox. 4, H302; Eye Irrit. 2, H319</th>
<th>5-&lt;10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>68439-49-6</td>
<td>Alcohols, C16-18, ethoxylated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>52-51-7</td>
<td>2-bromo-2-nitropropane-1,3-diol</td>
<td></td>
<td>&lt;0.05%</td>
</tr>
<tr>
<td>200-143-0</td>
<td>Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55965-84-9</td>
<td>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>
<td>&lt;0.005%</td>
</tr>
<tr>
<td>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>
<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: 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: 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).
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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Keep away from heat and direct sunlight.
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

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.
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: Yellowish
Odour: Weak, characteristic
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 self-igniting.

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: ≈ 33 mPas (DIN EN ISO 3219)
Kinematic: Not determined.

Solvent content:
Water: ≈ 60 %
Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 21.01.2020  
Version number 1  
Revision: 27.07.2017

Trade name: LUBA-print® 942

(Contd. of page 4)

- 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.

| CAS: 68439-49-6 Alcohols, C16-18, ethoxylated |
| Oral | LD50 | 300-2,000 mg/kg (rat) |

| CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol |
| Oral | LD50 | 307 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rat) |

| 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

| CAS: 68439-49-6 Alcohols, C16-18, ethoxylated |
| LC50 | 0.1-1 mg/l (fish) (96 h) |
| NOEC | <1 mg/l (algae) (72 h) |

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

Trade name: LUBA-print® 942

(Cntl. of page 5)

CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol

<table>
<thead>
<tr>
<th>EC50</th>
<th>0.4-2.8 mg/l (alga) (green alga / 72 h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.4 mg/l (daphnia) (Daphnia magna / 48 h)</td>
</tr>
<tr>
<td>LC50</td>
<td>41.2 mg/l (fish) (Onchorhynchus mykiss / 96 h)</td>
</tr>
</tbody>
</table>

CAS: 55965-84-9 Reaction mass of: 5-chloro-2-methyl-1-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

<table>
<thead>
<tr>
<th>EC50</th>
<th>0.018 mg/l (alga) (Pseudokirchneriella subcapitata / 72 h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4.5 mg/l (bacteria) (activated sludge)</td>
</tr>
<tr>
<td></td>
<td>0.16 mg/l (daphnia) (Daphnia magna / 48 h)</td>
</tr>
<tr>
<td>LC50</td>
<td>0.19 mg/l (fish) (Onchorhynchus mykiss / 96 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 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

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### Trade name: LUBA-print® 942

<table>
<thead>
<tr>
<th>Section</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.3</td>
<td>Transport hazard class(es)</td>
</tr>
<tr>
<td>ADR/RID/ADN, ADN, IMDG, IATA</td>
<td>Void</td>
</tr>
<tr>
<td>14.4</td>
<td>Packing group</td>
</tr>
<tr>
<td>ADR/RID/ADN, IMDG, IATA</td>
<td>Void</td>
</tr>
<tr>
<td>14.5</td>
<td>Environmental hazards:</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>14.6</td>
<td>Special precautions for user</td>
</tr>
<tr>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>14.7</td>
<td>Transport in bulk according to Annex II of Marpol and the IBC Code</td>
</tr>
<tr>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Transport/Additional information:</td>
<td>Not a dangerous good to the above specifications.</td>
</tr>
<tr>
<td>UN &quot;Model Regulation&quot;:</td>
<td>Void</td>
</tr>
</tbody>
</table>

### 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:
    - Information about limitation of use:
      - Employment restrictions concerning juveniles must be observed.
      - Employment restrictions concerning pregnant and lactating women must be observed.
    - Water hazard class: Water hazard class 2 (Self-assessment): 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**
  - H301 Toxic if swallowed.
  - H302 Harmful if swallowed.
  - H311 Toxic in contact with skin.
  - H312 Harmful in contact with skin.
  - H314 Causes severe skin burns and eye damage.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H319 Causes serious eye irritation.
  - H330 Fatal if inhaled.
  - H335 May cause respiratory irritation.
  - H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 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. 4: Acute toxicity - oral – Category 4
Acute Tox. 2: Acute toxicity - inhalation – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2