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

1.1 Product identifier
- Trade name: LUBA-print® WXF 9510
- UFI: 2MW0-Q0M9-500Q-3HVN

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 Additive for water-based paints, colors 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

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
  Eye Irrit. 2  H319  Causes serious eye irritation.

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

H319 Causes serious eye irritation.

Precautionary statements
- P264 Wash thoroughly after handling.
- 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.
- P337+P313 If eye irritation persists: Get medical advice/attention.

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 Thermal decomposition may lead to release of toxic and corrosive gases.

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

- **3.2 Chemical characterisation: Mixtures**
- **Description:** water based wax dispersion, coated with PTFE

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS:</th>
<th>EINECS:</th>
<th>Reg.nr.:</th>
<th>Substance</th>
<th>Workplace exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8002-74-2</td>
<td>232-315-6</td>
<td>01-2119488076-30</td>
<td>Paraffin waxes and Hydrocarbon waxes</td>
<td>10-20%</td>
</tr>
<tr>
<td></td>
<td>69011-36-5</td>
<td></td>
<td></td>
<td>Isotridecanol, ethoxylated</td>
<td>1-3%</td>
</tr>
<tr>
<td>Substance</td>
<td></td>
<td></td>
<td></td>
<td>Éye Dam. 1, H318; Acute Tox. 4, H302</td>
<td></td>
</tr>
<tr>
<td>Substance</td>
<td></td>
<td></td>
<td></td>
<td>2-bromo-2-nitropropane-1,3-diol</td>
<td>&lt;0.05%</td>
</tr>
<tr>
<td>Substance</td>
<td>52-51-7</td>
<td>200-143-0</td>
<td>01-2119980938-15</td>
<td>Éye 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>
</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.

- **5.2 Special hazards arising from the substance or mixture**
- Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
  - Hydrogen fluoride (HF)
  - Fluorophosgene (COF₂)

- **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.
- Ensure adequate ventilation
- Particular danger of slipping on leaked/spilled product.

(Contd. on page 3)
Trade name: LUBA-print® WXF 9510

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling
  No special precautions are necessary if used correctly.
  Ensure good ventilation/exhaustion at the workplace.
· 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:

  CAS: 8002-74-2 Paraffin waxes and Hydrocarbon waxes
  WEL Short-term value: 6 mg/m³
  Long-term value: 2 mg/m³

· 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

(Contd. on page 4)
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 cannot 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 16523-1:2015: Level 6).
  The determined penetration times according to EN 16523-1:2015 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
- **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: 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 self-igniting.
  - **Explosion 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**: ≈ 0.97 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.
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.01.2020
Version number 1
Revision: 16.08.2018

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(Contd. of page 4)

- Viscosity:
  - Dynamic at 23 °C: ≈ 115 mPas (DIN EN ISO 3219)
  - Kinematic: Not determined.

- Solvent content:
  - Water: ≈ 55%

- 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 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
  - Danger of toxic fluorine based pyrolysis products.

- Additional information:
  - When heated, gaseous decomposition products may be generated from PTFE, which can cause "fluoropolymer fever" on inhalation. Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

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:

<table>
<thead>
<tr>
<th>CAS: 8002-74-2 Paraffin waxes and Hydrocarbon waxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 &gt; 5,000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 69011-36-5 Isotridecanol, ethoxylated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 500-2,000 mg/kg (rat) (OECD 423)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50 307 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50 &gt; 2,000 mg/kg (rat)</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 irritation.

- 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.

(Contd. on page 6)
SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:**
    - **CAS: 69011-36-5 Isotridecanol, ethoxylated**
      - EC50 1-10 mg/l (alga) (green alga / 72 h)
      - LC50 1-10 mg/l (fish) (Leuciscus idus / 96 h)
    - **CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol**
      - EC50 0.4-2.8 mg/l (alga) (green alga / 72 h)
      - 1.4 mg/l (daphnia) (Daphnia magna / 48 h)
      - LC50 41.2 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.
- **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 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
Trade name: LUBA-print® WXF 9510

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, 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.

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

14.9 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.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- Water hazard 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.

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
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- 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
Trade name: **LUBA-print® WXF 9510**

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. 4: Acute toxicity - oral – Category 4  
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  
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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2