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

- **1.1 Product identifier**
  - Trade name: LUBA-print® WE 1620
  - UFI: K5W0-6059-0007-7TYA
- **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 and colors
- **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): 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
    - 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
- **Hazard statements**
  - 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**
  - **Results of PBT and vPvB assessment**
    - PBT: None.
    - vPvB: None.
### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation:** Mixtures
- **Description:** water based dispersion of a modified, micronized wax preparation

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Hazard Class</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric</td>
<td>69011-36-5</td>
<td>Isotridecanol, ethoxylated</td>
<td></td>
<td>1-3%</td>
</tr>
<tr>
<td>2-bromo-2-nitropropane-1,3-diol</td>
<td>52-51-7</td>
<td>Eye Dam. 1, H318; Acute Tox. 4, H302</td>
<td></td>
<td>&lt;0.05%</td>
</tr>
</tbody>
</table>

- **EINECS:** 200-143-0
- **Reg. nr.:** 01-2119980938-15

- **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. If symptoms persist, 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.
  - **Use fire extinguishing methods suitable to surrounding conditions.**

- **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**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
  - 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**
  - 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:**
  
  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:**
  
  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:**
  
  Protective gloves
  
  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
  
  Neoprene gloves
  
  Recommended thickness of the material: \( \geq 0.4 \text{ mm} \)
  
  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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  
  **Eye protection:** Safety glasses

(Contd. of page 4)
## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:** Fluid
  - **Colour:** White
  - **Odour:** Specific type
  - **Odour threshold:** Not determined.
  - **pH-value at 20 °C:** ≈ 6 (DIN ISO 976)

### Change in condition
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** ≈100 °C
- **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 applicable
    - **Upper:** Not applicable
  - **Oxidising properties:** None
  - **Vapour pressure:** Not determined
  - **Density at 20 °C:** ≈1 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:** Not determined.
- **Solvent content:**
  - **Water:** ≈ 55 %
- **Solids content:** ≈ 45 %

## 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.

<table>
<thead>
<tr>
<th>LD/LC50 values relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 69011-36-5 Isotridecanol, ethoxylated</td>
</tr>
<tr>
<td>Oral LD50 500-2,000 mg/kg (rat) (OECD 423)</td>
</tr>
<tr>
<td>CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol</td>
</tr>
<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.
· Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

<table>
<thead>
<tr>
<th>Aquatic toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 69011-36-5 Isotridecanol, ethoxylated</td>
</tr>
<tr>
<td>EC50 1-10 mg/l (algae / 72 h)</td>
</tr>
<tr>
<td>LC50 1-10 mg/l (fish) (Leuciscus idus / 96 h)</td>
</tr>
<tr>
<td>CAS: 52-51-7 2-bromo-2-nitropropane-1,3-diol</td>
</tr>
<tr>
<td>EC50 0.4-2.8 mg/l (algae / 72 h) 1.4 mg/l (daphnia) (Daphnia magna / 48 h)</td>
</tr>
<tr>
<td>LC50 41.2 mg/l (fish) (Oncorhynchus 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.
· Ecotoxicological 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.
Recommended cleansing agents:

- 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

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN-Number</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>ADR/RID/ADN, ADN, IMDG, IATA</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>14.2 UN proper shipping name</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>ADR/RID/ADN, ADN, IMDG, IATA</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>ADR/RID/ADN, ADN, IMDG, IATA</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>Class</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>ADR/RID/ADN, ADN, IMDG, IATA</td>
<td></td>
<td>Void</td>
</tr>
<tr>
<td>14.5 Environmental hazards:</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td></td>
<td>No</td>
</tr>
<tr>
<td>14.6 Special precautions for user</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Transport/Additional information:</td>
<td></td>
<td>Not a dangerous good to the above specifications.</td>
</tr>
<tr>
<td>UN &quot;Model Regulation&quot;:</td>
<td></td>
<td>Void</td>
</tr>
</tbody>
</table>

(Contd. on page 7)
SECTION 15: Regulatory information

- 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
  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