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

1.1 Product identifier
- Trade name: LUBA-print® 887/K
- UFI: 1RM0-K0HD-M00R-YCV0

1.2 Relevant identified uses of the substance or mixture and uses advised against
- 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
  Flam. Liq. 3  H226 Flammable liquid and vapour.
  STOT SE 3  H336 May cause drowsiness or dizziness.
  Asp. Tox. 1  H304 May be fatal if swallowed and enters airways.
  Aquatic Chronic 3  H412 Harmful to aquatic life with long lasting effects.

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
  GHS02  GHS07  GHS08

- Signal word: Danger

- Hazard-determining components of labelling:
  Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

- Hazard statements
  H226 Flammable liquid and vapour.
  H336 May cause drowsiness or dizziness.
  H304 May be fatal if swallowed and enters airways.
  H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements
  P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
  P331 Do NOT induce vomiting.
  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

(Contd. on page 2)
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>EC number: 927-241-2</th>
<th>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt;2%</th>
<th>75-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reg.nr.: 01-2119471843-32</td>
<td>aromatics</td>
<td>Flam. Lig. 3, H226; Asp. Tox. 1, H304, STOT SE 3, H336; Aquatic Chronic 3, H412</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:
    - Take affected persons into fresh air and keep quiet.
    - Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
    - In case of unconsciousness place patient stably in side position for transportation.
  - 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:
    - Do not induce vomiting; call for medical help immediately.
  - 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 Can form explosive gas-air mixtures.
  - 5.3 Advice for firefighters
  - Protective equipment: Do not inhale explosion gases or combustion gases.
  - Additional information
    - Cool endangered receptacles with water spray.
    - Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

(Contd. of page 1)
SECTION 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Ensure adequate ventilation.
  - Keep away from ignition sources.
  - Wear protective clothing.
  - Wear protective equipment. Keep unprotected persons away.

- Environmental precautions:
  - Do not allow to penetrate the ground/soil.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Do not allow to enter sewers/surface or ground water.

- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents.

- 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

- Precautions for safe handling
  - Store in cool, dry place in tightly closed receptacles.
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.

- Information about fire - and explosion protection:
  - Keep ignition sources away - Do not smoke.
  - Protect from heat.
  - Protect against electrostatic charges.

- 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: Store away from oxidising agents.
    - Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

- 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.

- 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.

- DNELs
  - Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
    - Oral consumer, long-term exposure, systemic effects 300 mg/kg bw/day (human)
    - Dermal worker, long-term exposure, systemic effects 300 mg/kg bw/day (human)
    - Oral consumer, long-term exposure, systemic effects 300 mg/kg bw/day (human)
**Safety data sheet**

**according to 1907/2006/EC, Article 31**

Printing date 21.01.2020  
Version number 1  
Revision: 19.09.2017

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**Trade name: LUBA-print® 887/K**

<table>
<thead>
<tr>
<th>Exposure route</th>
<th>Limit value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalative worker, long-term exposure, systemic effects</td>
<td>1,500 mg/m³ (human)</td>
<td></td>
</tr>
<tr>
<td>Consumer, long-term exposure, systemic effects</td>
<td>900 mg/m³ (human)</td>
<td></td>
</tr>
</tbody>
</table>

- **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:**
      - 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:**
      - 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**
      - Butyl rubber, BR
      - 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.
    - **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:** Tightly sealed goggles
  - **Body protection:** Protective work clothing

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**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Fluid
      - **Colour:** Yellow
      - **Odour:** Weak, characteristic
      - **Odour threshold:** Not determined.
    - **pH-value:** Not determined.
  - **Change in condition**
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: 110 - 190 °C (01-2119471843-32)
  - **Flash point:** ≈ 30 °C (DIN EN ISO 2719)
  - **Flammability (solid, gas):** Not applicable.
Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 21.01.2020  
Revision: 19.09.2017  
Version number 1

Trade name: LUBA-print® 887/K

(Contd. of page 4)

- Ignition temperature:  > 200 °C (01-2119471843-32)
- Decomposition temperature:  Not determined.
- Auto-ignition temperature:  Product is not selfigniting.
- Explosive properties:  Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
  - Explosion limits:  
    - Lower:  ≈ 0.6 Vol % (01-2119471843-32)
    - Upper:  ≈ 7.0 Vol % (01-2119471843-32)
  - Oxidising properties:  None.
- Vapour pressure at 20 °C:  5 hPa (01-2119471843-32)
- Density at 20 °C:  ≈ 0.79 g/cm³ (DIN EN ISO 2811-1)
  - Relative density:  Not determined.
  - Vapour density:  Not determined.
  - Evaporation rate:  Not determined.
- Solubility in / Miscibility with water:  Insoluble.
- Partition coefficient: n-octanol/water:  Not determined.
- Viscosity:  
  - Dynamic at 23 °C:  ≈ 20 mPas (DIN EN ISO 3219)
  - Kinematic at 40 °C:  <7 mm²/s (DIN 53211/4)
- Solvent separation test:  Not determined.
- 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
  Flammable vapour-air mixtures may develop if stored in large receptacles and above room temperature.
- 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:
  - Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
    - Oral LD50 5,000 mg/kg (rat) (OECD 401)
    - Dermal LD50 >5,000 mg/kg (rabbit) (OECD 402)
- 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.

(Contd. on page 6)
12.6 Other adverse effects
No further relevant information available.

· Aspiration hazard
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 04* other organic solvents, washing liquids and mother liquors

(Contd. on page 7)
SECTION 14: Transport information

14.1 UN-Number
-ADR/RID/ADN, IMDG, IATA UN1993

14.2 UN proper shipping name
-ADR/RID/ADN 1993 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)
-IMDG, IATA FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics)

14.3 Transport hazard class(es)
-ADR/RID/ADN, IMDG, IATA

Class 3 Flammable liquids.
Label 3

14.4 Packing group
-ADR/RID/ADN, IMDG, IATA III

14.5 Environmental hazards:
Not applicable.

14.6 Special precautions for user
Warning: Flammable liquids.
Hazard identification number (Kemler code): 30
EMS Number: F-E-S-E
Storage Category A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

Transport/Additional information:
-ADR/RID/ADN
-Limited quantities (LQ) 5L
-Transport category 3
-Tunnel restriction code D/E

UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS), 3, III

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.
-Seveso category P5c FLAMMABLE LIQUIDS

(Contd. on page 8)
Trade name: LUBA-print® 887/K

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
· 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 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
  H226 Flammable liquid and vapour.
  H304 May be fatal if swallowed and enters airways.
  H336 May cause drowsiness or dizziness.
  H412 Harmful 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)
  DNEL: Derived No-Effect Level (REACH)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Flam. Liq. 3: Flammable liquids – Category 3
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  Asp. Tox. 1: Aspiration hazard – Category 1
  Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3