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

- **1.1 Product identifier**
  - Product name: LOBADUR B17 Härter Hardener HS 2K Intensive A.T.
  - Article number: 11054-B17-000

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - Application of the substance / the mixture: Curing agent/ cross-linker/ Vulcanising agent
  - No further relevant information available.

- **1.3 Details of the supplier of the safety data sheet**
  - Manufacturer/Supplier: LOBA GmbH & Co. KG
    Leonberger Straße 56 - 62
    D-71254 Ditzingen
  - Informing department: Productmanagement
  - e-mail: service@loba.de
  - **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - Classification according to Regulation (EC) No 1272/2008
  
  ![GHS07](image)

  Acute Tox. 4 H332 Harmful if inhaled.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  STOT SE 3 H335 May cause respiratory 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](image)

- **Signal word** Warning

- **Hazard-determining components of labelling:**
  - hexamethylenediisocyanate oligomers
  - hexamethylene disocyanate

- **Hazard statements**
  - H332 Harmful if inhaled.
  - H317 May cause an allergic skin reaction.
  - H335 May cause respiratory irritation.

- **Precautionary statements**
  - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P280 Wear protective gloves.
  - P302+P352 IF ON SKIN: Wash with plenty of soap and water.
  - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - P403+P233 Store in a well-ventilated place. Keep container tightly closed.

(Contd. on page 2)
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**
  - EUH204 Contains isocyanates. May produce an allergic reaction.
  - 2.3 Other hazards
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Mixture of the substances listed below with harmless additions.
  - **Dangerous components:**
    - CAS: 28182-81-2
      - EC number: 931-274-8
      - Reg.nr.: 01-2119485796-17
      - hexamethylendiisocyanate oligomers
        - Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335
        - 50-100%
    - CAS: 822-06-0
      - EINECS: 212-485-8
      - Index number: 615-011-00-1
      - Reg.nr.: 01-2119457571-37-0000/5/6
      - hexamethylene diisocyanate
        - Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Irrit. 2, H313; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335
        - 0.1-<0.5%

- **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**
  - **After inhalation**
    - Supply fresh air and call for doctor for safety reasons.
    - In case of unconsciousness bring patient into stable side position for transport.
  - **After skin contact**
    - Instantly wash with water and soap and rinse thoroughly.
  - **After eye contact**
    - Rinse opened eye for several minutes under running water.
  - **After swallowing**
    - In case of persistent symptoms 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
    - Use fire fighting measures that suit the environment.

- **5.2 Special hazards arising from the substance or mixture**
  - No further relevant information available.

- **5.3 Advice for firefighters**
  - Protective equipment: No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Not required.

- **6.2 Environmental precautions:**
  - Do not allow product to reach sewage system or water bodies.
  - Inform respective authorities in case product reaches water or sewage system.

(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 information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Keep containers tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage
Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Storage class 10

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>WEL Short-term value</th>
<th>Long-term value</th>
<th>Medium</th>
<th>Sampling time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>822-06-0 hexamethylene diisocyanate</td>
<td>0.07 mg/m³</td>
<td>0.02 mg/m³</td>
<td>urine</td>
<td>At the end of the period of exposure</td>
<td>isocyanate-derived diamine</td>
</tr>
</tbody>
</table>

Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Component</th>
<th>Biological limit value</th>
<th>Medium</th>
<th>Sampling time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>822-06-0 hexamethylene diisocyanate</td>
<td>1 µmol creatinine/mol</td>
<td>urine</td>
<td>At the end of the period of exposure</td>
<td>isocyanate-derived diamine</td>
</tr>
</tbody>
</table>

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

General protective and hygienic measures
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.

Breathing equipment:
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

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
  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.
  Recommended thickness of the material: ≥ 0.4 mm

- **Penetration time of glove material**
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
  For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).
  Value for the permeation: Level ≤ 6

- **Eye protection**: Safety glasses recommended during refilling.

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  **General Information**
  **Appearance:** Form: Fluid
  Colour: Light yellow
  Smell: Recognisable
  Odour threshold: Not determined.
  pH-value: Not determined.
  Change in condition
  Melting point/freezing point: Not determined
  Initial boiling point and boiling range: Not determined
  Flash point: 228 °C
  Inflammability (solid, gaseous): Not applicable.
  Decomposition temperature: Not determined.
  Self-inflammability: Product is not self-igniting.
  Explosive properties: Product is not explosive.
  Lower: Not determined.
  Upper: Not determined.
  Steam pressure: Not determined.
  Density at 20 °C: 1.13 g/cm³
  Relative density: Not determined.
  Vapour density: Not determined.
  Evaporation rate: Not determined.
  Solubility in / Miscibility with Water: Not miscible or difficult to mix
  Partition coefficient: n-octanol/water: Not determined.
  Viscosity: dynamic at 20 °C: 600 mPas
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
  Reacts with alcohols, amines, aqueous acids and alkalis
  Reacts with water
  Danger of bursting
- 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: Harmful if inhaled.
  - 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: May cause respiratory irritation.
  - 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: No further relevant information available.
- 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.
- Additional ecological information:
  - General notes:
    Water hazard class 2 (Self-assessment): hazardous for water.
    Do not allow product to reach ground water, water bodies or sewage system.
    Danger to drinking water if even small quantities leak into soil.
  - 12.5 Results of PBT and vPvB assessment
    - PBT: Not applicable.


**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  After prior treatment product has to be landfilled or incinerated under adherence to the regulations pertaining to the disposal of especially hazardous waste.

**European waste catalogue**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>08 00 00</td>
<td>WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS</td>
</tr>
<tr>
<td>08 01 00</td>
<td>wastes from MFSU and removal of paint and varnish</td>
</tr>
<tr>
<td>08 01 11*</td>
<td>waste paint and varnish containing organic solvents or other hazardous substances</td>
</tr>
</tbody>
</table>

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN-Number**
  - ADR, ADN, IMDG, IATA
  - **Void**

- **14.2 UN proper shipping name**
  - ADR, ADN, IMDG, IATA
  - **Void**

- **14.3 Transport hazard class(es)**
  - ADR, ADN, IMDG, IATA
  - **Class**
    - **Void**

- **14.4 Packing group**
  - ADR, 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.**

- **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

(Contd. on page 7)
Product name LOBADUR B17 Härter Hardener HS 2K Intensive A.T.

- National regulations
- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

*SECTION 16: Other information*

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Alteration in the context will be marked with a cross (*).

- Relevant phrases
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H319 Causes serious eye irritation.
  H331 Toxic if inhaled.
  H332 Harmful if inhaled.
  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  H335 May cause respiratory irritation.

- Department issuing data specification sheet: Productmanagement.

- 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)
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Acute Tox. 3: Acute toxicity - inhalation – Category 3
  Acute Tox. 4: Acute toxicity - inhalation – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Resp. Sens. 1: Respiratory sensitisation – Category 1
  Skin Sens. 1: Skin sensitisation – Category 1
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- * Data compared to the previous version altered.*