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

1.1 Product identifier

Product name: LOBACURE WS 2K UV Härter/Hardener B14

1.2 Relevant identified uses of the substance or mixture and uses advised against

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
Tel.: +49 (0)7156/357-0

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

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.

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

GHS07

Signal word: Warning

Hazard-determining components of labelling:
aliphatic polyisocyanate
2-butoxyethyl acetate
hexamethylene diisocyanate

Hazard statements
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 2)
**Product name LOBACURE WS 2K UV Härter/Hardener B14**

- **Precautionary statements**
  - P273 Avoid release to the environment.
  - P280 Wear protective clothing / eye protection.
  - P302+P352 IF ON SKIN: Wash with plenty of 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.
  - 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**
  - The product evidently does not contain any organically bonded halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

- **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.

<table>
<thead>
<tr>
<th>CAS: 160994-68-3</th>
<th>aliphatic polyisocyanate</th>
<th>50-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| CAS: 112-07-2 | 2-butoxyethyl acetate | 5-10% |
| EINECS: 203-933-3 |
| Index number: 607-038-00-2 |
| Reg.nr.: 01-2119475112-47-xxxx |
| Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 |

| CAS: 822-06-0 | hexamethylene diisocyanate | <0.5% |
| EINECS: 212-485-8 |
| Index number: 615-01-00-1 |
| Reg.nr.: 01-2119457571-37-0000/5/6 |
| Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 |

- **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**
    - Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - **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.

(Contd. on page 3)
**SECTION 5: Firefighting measures**

5.1 Extinguishing media
- Suitable extinguishing agents
  CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture No further relevant information available.
5.3 Advice for firefighters
- Protective equipment: Put on breathing apparatus.

**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.
- Dilute with much water.
6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose of contaminated material as waste according to item 13.
- 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: Keep container tightly sealed.
- 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>112-07-2 2-butoxyethyl acetate</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL</td>
</tr>
<tr>
<td>Sk</td>
</tr>
</tbody>
</table>
Product name LOBACURE WS 2K UV Härter/Hardener B14

| 822-06-0 hexamethylene diisocyanate |

WEL
Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

Ingredients with biological limit values:

| 822-06-0 hexamethylene diisocyanate |

BMGV 1 µmol creatinine/mol
Medium: urine
Sampling time: At the end of the period of exposure
Parameter: isocyanate-derived diamine

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

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures
Keep away from foodstuffs, beverages and food.
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: Colourless
Smell: Recognisable
Odour threshold: Not determined.

pH-value: Not determined.
<table>
<thead>
<tr>
<th>Change in condition</th>
<th>Melting point/freezing point:</th>
<th>Not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Initial boiling point and boiling range:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point:</td>
<td>65 °C</td>
<td></td>
</tr>
<tr>
<td>Inflammability (solid, gaseous)</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Self-inflammability:</td>
<td>Product is not selfigniting.</td>
<td></td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>Product is not explosive.</td>
<td></td>
</tr>
<tr>
<td>Lower:</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Upper:</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Steam pressure:</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Density at 20 °C</td>
<td>1.095 g/cm³</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water:</td>
<td>Fully miscible</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water:</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>Viscosity:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>dynamic:</td>
<td>Not determined.</td>
<td></td>
</tr>
<tr>
<td>kinematic at 20 °C:</td>
<td>36 s (DIN 53211/4)</td>
<td></td>
</tr>
<tr>
<td>Solids content:</td>
<td>75.0 %</td>
<td></td>
</tr>
<tr>
<td>9.2 Other information</td>
<td>No further relevant information available.</td>
<td></td>
</tr>
</tbody>
</table>

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**: Based on available data, the classification criteria are not met.
- **Skin corrosion/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.

Ecotoxic effects:
Remark: Harmful to fish

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.
Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

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>European waste 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.
Recommended cleaning agent: Water, if necessary with cleaning agent.
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: 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
- 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
  - H302 Harmful if swallowed.
  - H312 Harmful in contact with skin.
  - 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.
  - H412 Harmful to aquatic life with long lasting effects.
- Department issuing data specification sheet: Productmanagement.
Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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 – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye 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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.