

**Safety Data Sheet**

according to UK REACH Regulation

**OLI-NATURA Härter**

Revision date: 08.06.2024

Product code: A03662

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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Product group: Fertigware  
UFI: RK70-VVW1-5N0T-HPPN

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Curing agent

**1.3. Details of the supplier of the safety data sheet**

Company name: Oli Lacke GmbH  
Street: Bahnhofstrasse 22  
Place: D-09244 Lichtenau  
Telephone: +49(0)37208/84200      Telefax: +49(0)37208/84268  
e-mail: entwicklung@oli-lacke.de  
Contact person: Gemeins.      Telephone: +49(0)361/730730  
Gifinformationszentrum Erfurt  
Internet: www.oli-lacke.de

**1.4. Emergency telephone number:** Gemeins. Gifinformationszentrum Erfurt  
+49(0)361/730730

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Acute Tox. 4; H332  
Skin Sens. 1; H317  
STOT SE 3; H335  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

Hydrophiles, aliphatisches Polyisocyanat  
hexamethylene-di-isocyanate

**Signal word:** Warning

**Pictograms:****Hazard statements**

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

**Precautionary statements**

P102 Keep out of reach of children.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| P280      | Wear protective gloves/protective clothing/eye protection/face protection. |
| 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. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention.           |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.           |

**Special labelling of certain mixtures**

EUH204 Contains isocyanates. May produce an allergic reaction.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

| CAS No      | Chemical name                                                                                                    |              |          | Quantity     |
|-------------|------------------------------------------------------------------------------------------------------------------|--------------|----------|--------------|
|             | EC No                                                                                                            | Index No     | REACH No |              |
|             | Classification (GB CLP Regulation)                                                                               |              |          |              |
| 666723-27-9 | Hydrophiles, aliphatisches Polyisocyanat                                                                         |              |          | 95 - < 100 % |
|             | Acute Tox. 4, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H332 H317 H335 H412                                    |              |          |              |
| 822-06-0    | hexamethylene-di-isocyanate                                                                                      |              |          | < 0.1 %      |
|             | 212-485-8                                                                                                        | 615-011-00-1 |          |              |
|             | Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H331 H315 H319 H334 H317 H335 |              |          |              |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No      | EC No     | Chemical name                                                                                                                                      | Quantity     |
|-------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|             |           | Specific Conc. Limits, M-factors and ATE                                                                                                           |              |
| 666723-27-9 |           | Hydrophiles, aliphatisches Polyisocyanat                                                                                                           | 95 - < 100 % |
|             |           | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists)                                                                   |              |
| 822-06-0    | 212-485-8 | hexamethylene-di-isocyanate                                                                                                                        | < 0.1 %      |
|             |           | inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists) Resp. Sens. 1; H334: >= 0,5 - 100 Skin Sens. 1; H317: >= 0,5 - 100 |              |

**Further Information**

Das Produkt enthält weniger als 0,1 % Diisocyanat-Monomere und darf deshalb ohne zusätzliche Schulungen verwendet werden.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

In all cases of doubt, or when symptoms persist, seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious but breathing normally, place in recovery position and seek medical advice.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

**After contact with skin**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner

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**After contact with eyes**

Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion**

If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Impaired consciousness

**4.3. Indication of any immediate medical attention and special treatment needed**

Immediately call a doctor.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water mist

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Burning produces heavy smoke. Hazardous decomposition products: carbon black Danger of serious damage to health by prolonged exposure. Use appropriate respiratory protection.

**5.3. Advice for firefighters**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Keep away from sources of ignition - No smoking. Provide adequate ventilation. In case of fire and/or explosion do not breathe fumes. Safe handling: see section 7 Personal protection equipment: see section 8

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Observe in addition any national regulations! In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up****Other information**

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean with detergents. Avoid solvent cleaners.

The contaminated area should be cleaned up immediately with: a mixture of 45% water, 50% ethanol or isopropyl alcohol, 5% concentrated ammonia solution (density 0.880)

Other: a mixture of 95% water and 5% sodium carbonate

Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of.

**6.4. Reference to other sections**

See section 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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**Advice on safe handling**

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Even after use and until complete evaporation of the flammable components, there is still a danger of an explosive steam-air mixture forming. Only use the material in places where open light, fire and other flammable sources can be kept away. Take precautionary measures against static discharges. Use explosion-proof electrical equipment. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink or smoke. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

**Advice on protection against fire and explosion**

Concentrated vapours are heavier than air. Vapours may form explosive mixtures with air.

**Advice on general occupational hygiene**

Wash hands before breaks and after work. Do not eat, drink, smoke or sneeze at the workplace.

In dry state: Do not subject to grinding. Avoid dust formation. If possible, dampen before cutting or drilling.

Contains isocyanates. See information supplied by the manufacturer.

**Further information on handling**

Conditions to avoid : Avoid contact with water. Protect from moisture.

Formation of: Carbon dioxide (CO<sub>2</sub>). Due to gaseous decomposition products, overpressure can occur in tightly sealed containers.

Observe in addition any national regulations!

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Betriebssicherheitsverordnung (BetrSichV)

**Hints on joint storage**

Do not store together with: Oxidising agent , Strong acid, Strong alkali , Amines, Water.

**Further information on storage conditions**

Keep only in the original container in a cool, well-ventilated place. Keep away from heat. Follow the instructions for use on the label. Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

**7.3. Specific end use(s)**

Observe technical data sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used. Examination of lung function should be carried out on a regular basis on persons spraying this product.

**8.2. Exposure controls****Appropriate engineering controls**

Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If technical exhaust or ventilation measures are not possible or insufficient, respiratory

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protection must be worn.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Tested protective gloves are to be worn: NBR (Nitrile rubber). The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Use protective skin cream before handling the product.

#### Skin protection

Protective clothing: Natural fibres (e.g. cotton) heat-resistant synthetic fibres

#### Respiratory protection

During spraying wear suitable respiratory equipment. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Combination filtering device. During spraying wear suitable respiratory equipment. Self-contained respirator (breathing apparatus)

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:

liquid

Colour:

#### Test method

#### Changes in the physical state

Flash point:

n.v. DIN EN ISO 1523

Auto-ignition temperature:

435 °C

Flow time:

Hochviskos

(at 20 °C)

Density (at 20 °C):

ISO 2811

### 9.2. Other information

#### Other safety characteristics

Solvent separation test:

< 3 %

Solid content:

100 %

#### Further Information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Response: After contact with water: Yes, slowly .

Formation of: Carbon dioxide (CO<sub>2</sub>).

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Exothermic reactions with: Alkalis (alkalis), concentrated. Acid, concentrated. Oxidizing agents, strong.Amines, Alcohols, Water.

Due to gaseous decomposition products, overpressure can occur in tightly sealed containers. Danger of bursting container.

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**10.4. Conditions to avoid**

Thermal decomposition can lead to the escape of irritating gases and vapours.

**10.5. Incompatible materials**

Exothermic reactions with: Alcohols, Amines.

**10.6. Hazardous decomposition products**

Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Hydrocyanic acid (hydrocyanic acid).

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****ATEmix calculated**

ATE (inhalation vapour) 11,01 mg/l; ATE (inhalation dust/mist) 1,501 mg/l

**Acute toxicity**

| CAS No      | Chemical name                            |              |         |        |        |
|-------------|------------------------------------------|--------------|---------|--------|--------|
|             | Exposure route                           | Dose         | Species | Source | Method |
| 666723-27-9 | Hydrophiles, aliphatisches Polyisocyanat |              |         |        |        |
|             | inhalation vapour                        | ATE 11 mg/l  |         |        |        |
|             | inhalation dust/mist                     | ATE 1,5 mg/l |         |        |        |
| 822-06-0    | hexamethylene-di-isocyanate              |              |         |        |        |
|             | inhalation vapour                        | ATE 3 mg/l   |         |        |        |
|             | inhalation dust/mist                     | ATE 0,5 mg/l |         |        |        |

**Irritation and corrosivity**

Irritating to skin.

**Sensitising effects**

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

**Carcinogenic/mutagenic/toxic effects for reproduction**

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

**Aspiration hazard**

Contains isocyanates. May produce an allergic reaction. Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Additional information on tests**

There are no data available on the preparation/mixture itself. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

**SECTION 12: Ecological information****12.1. Toxicity**

There are no data available on the mixture itself.

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

There are no data available on the preparation/mixture itself.

**Further information**

There are no data available on the preparation/mixture itself. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

**List of Wastes Code - residues/unused products**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)****Other applicable information (land transport)**

No dangerous good in sense of these transport regulations.

**Inland waterways transport (ADN)****Other applicable information (inland waterways transport)**

No dangerous good in sense of these transport regulations.

**Marine transport (IMDG)****Other applicable information (marine transport)**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

No dangerous good in sense of these transport regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

refer to chapter 7. No further action is necessary.

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**14.7. Maritime transport in bulk according to IMO instruments**

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 74, Entry 75

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**Additional information**

Observe in addition any national regulations!

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment is not required.

**SECTION 16: Other information****Classification for mixtures and used evaluation method according to GB CLP Regulation**

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Acute Tox. 4; H332      | Calculation method       |
| Skin Sens. 1; H317      | Calculation method       |
| STOT SE 3; H335         | Calculation method       |
| Aquatic Chronic 3; H412 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

|        |                                                                            |
|--------|----------------------------------------------------------------------------|
| 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.                         |
| EUH204 | Contains isocyanates. May produce an allergic reaction.                    |

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*