

## HS Euro-Leder Komp. B

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### 1. Substance/preparation and company identification

Trade name:

HS EURO-LEDER Komp. B

Application of the substance/ the preparation:

Chemical

EURO-LEDER & Co. KG  
Werner-von-Siemens-Str. 35a  
D-49124 Georgsmarienhütte  
Tel: 05401/880 81  
Fax: 05401/880 81 35  
E-Mail: [info@euro-service-depot.de](mailto:info@euro-service-depot.de)

Notfallauskunft:  
Giftzentrale Göttingen  
Tel.: 0551/19240  
Fax: 0551/3831881

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### 2. Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008

Acute toxicity, inhal., Gases, Cat. 4, H332  
Skin corrosion/irritation, Cat. 2, H315  
Serious eye damage/eye irritation, Cat. 2, H319  
Carcinogenicity, Cat. 2, H351  
Specific target organ toxicity (single exposure, inhalation), Cat.3, H335  
Specific target organ toxicity (repeated exposure, inhalation), Cat. 2, H373  
Respiratory Sensitisation, Cat. 1, H334  
Skin Sensitisation, Cat. 1, H317

Contains isocyanates. See information supplied by the manufacturer.

**Additional information** For the full text of the phrases mentioned in this Section, see Section 16.

#### 2.2. Label elements



**Signal Word**

**Hazard Statements**

Danger

H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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### Precautionary statements

H335: May cause respiratory irritation.  
 H351: Suspected of causing cancer.  
 H373: May cause damage to organs through prolonged or repeated exposure if inhaled.  
 P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P280: Wear protective gloves/ protective clothing/ eye protection/face protection.  
 P284a: [In case of inadequate ventilation] wear respiratory protection.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P311: IF exposed: Call a POISON CENTER or doctor/ physician.

### Supplemental information Product identifier

None.  
 Isocyanic acid, polymethylenepolyphenylene ester, CAS-No. 9016-87-9  
 4,4'-Methylenediphenyl diisocyanate, CAS-No. 101-68-8,  
 REACH No. 01-2119457014-47  
 No hazards to be specially mentioned.

### 2.3. Other hazards

## 3. Composition/information on ingredients

### 3.2. Mixtures

Isocyanates.

Components		CLP Classification	Product identifier
Isocyanic acid, polymethylenepolyphenylene ester	60-100	Acute Tox. 4 H332, Skin Irrit. 2 H315, Eye Irrit. 2 H319, Resp. Sens.1 H334, Skin Sens. 1 H317, Carc. 2 H351, STOT SE 3 H335, STOT RE 2 H373i	CAS-No.: 9016-87-9 Index-No: Polymer
4,4'-Methylenediphenyl diisocyanate	30-60	Acute Tox. 4 H332, Skin Irrit. 2 H315, Eye Irrit. 2 H319, Resp. Sens.1 H334, Skin Sens. 1 H317, Carc. 2 H351, STOT SE 3 H335, STOT RE 2 H373i	CAS-No.: 101-68-8 Index-No: 202-966-0 REACH No.: 01-2119457014-47

For the full text of the phrases mentioned in this Section, see Section 16.

### Hazardous impurities

None known.

## 4. First aid measures

### 4.1. Description of first aid measures

#### Inhalation

If breathing is difficult, give oxygen. Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Call a physician or poison control center immediately.

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**Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Call a physician immediately.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Protect unharmed eye. Consult an ophthalmologist.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible. Call a physician immediately.

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

First aider needs to protect himself. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Consult a physician. Allergic appearance. Asthmatic appearance.

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

Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

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**5. Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Water spray. Water spray mist or foam. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Extinguishing media which must not be used for safety reasons**

High volume water jet.

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

During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Liberates poisonous gas. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

**5.3. Advice for firefighters**

**Special protective equipment for firefighter's**

Standard procedure for chemical fires. In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Complete suit protecting against chemicals.

**Specific methods**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers.

Collect contaminated fire extinguishing water separately. This must not be discharged into drain.

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**6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Advice for non-emergency**

**Personnel**

Any action only if without personal risk. Use personal protective equipment. Ventilate the area. Avoid contact with skin and eyes. Do not breathe vapours/dust. Immediately evacuate personnel to safe areas.

**Advice for emergency responders**

Any action only if without personal risk. Use personal protective equipment. Ventilate the area. Do not breathe vapours/dust. Immediately evacuate personnel to safe areas. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal.

**6.4. Reference to other sections**

See chapter 8 and 13

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**7. Handling and storage**

**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Ensure adequate ventilation, especially in confined areas. Use only in area provided with appropriate exhaust ventilation. Container may be opened only under exhaust ventilation hood. Wear self-contained breathing apparatus and protective suit. Plan first aid action before beginning work with this product.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep at temperatures between 5 and 45 °C. Store in original container. Keep containers tightly closed in a dry, cool and well ventilated place.

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

No information available.

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**8. Exposure controls/personal protection**

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### 8.1. Control parameters

**Exposure limit(s)**  
 DNEL human health, dermal, short term (acute):  
 50 mg/kg.  
 DNEL human health, inhalation, short term (acute):  
 0,1 mg/m<sup>3</sup>.  
 DNEL human health, inhalation, long term (repeated exposure): 0,05 mg/m<sup>3</sup>.  
 PNEC Environment, Fresh water: 1 mg/l.  
 PNEC Environment, Soil: 1mg/kg.  
 PNEC Environment, Marine water: 0,1 mg/l.

### 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)

Ireland - Occupational Exposure  
 Limits – TWAs 0.02 mg/m<sup>3</sup> TWA (as NCO)  
 Ireland - Occupational Exposure  
 Limits – STELs 0.07 mg/m<sup>3</sup> STEL

### 8.2. Exposure controls

**Occupational exposure controls**  
 Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice.

### Personal protection equipment

**Respiratory protection**  
 In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection**  
 The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
 PVC or other plastic material gloves.

**Eye protection**  
 Safety glasses with side-shields conforming to EN166.

**Skin and body protection**  
 Long sleeved clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Thermal hazards

No special measures required.

**Environmental exposure controls**  
 Prevent product from entering surface water or sewage. Use of closed filling equipment.

## 9. Physical and chemical properties

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

**Form** Liquid.  
**Colour** Brown.  
**Odour** Characteristic.  
**Odour Threshold** not determined  
**pH:** not applicable  
**Melting point/range:** not determined  
**Boiling point/range:** 245°C  
**Flash point:** 230°C  
**Evaporation Rate:** not determined

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<b>Flammability:</b>	not applicable
<b>Explosion limits:</b>	Not explosive
<b>Vapour pressure:</b>	not determined
<b>Vapor density:</b>	8,5
<b>Relative density:</b>	1,23
<b>Water solubility:</b>	Reacts with water.
<b>Partition coefficient (n-octanol/ water):</b>	not determined
<b>Autoignition temperature:</b>	not determined
<b>Decomposition temperature:</b>	not determined
<b>Viscosity:</b>	200 mPas
<b>Combustion/explosion hazards:</b>	not determined
<b>Oxidizing properties:</b>	None
<b>9.2. Other information</b>	
<b>General Product Characteristics</b>	No information available.

## 10. Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No decomposition if used as directed. Stable at normal conditions.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with strong acids. Exothermal reaction with amines and alcohols. Container can be pressurized by carbon dioxide due to reaction with humid air and/or water.

### 10.4. Conditions to avoid

Burning produces obnoxious and toxic fumes. Avoid moisture. Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

ferrous metals, alloys and galvanized surfaces  
 Incompatible with acids and bases. Reacts violently with water. Alcohols. Amines.

### 10.6. Hazardous decomposition products

None under normal use. In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke. Hydrogen cyanide (hydrocyanic acid). Hydrocarbons.

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

**Isocyanic acid, polymethylenepolyphenylene ester  
 (CAS 9016-87-9)**

Dermal LD<sub>50</sub> Rabbit > 9.4 g/kg (WHO)

Inhalation LC<sub>50</sub> Rat = 490 mg/m<sup>3</sup> 4 h(NLM\_CIP)

Oral LD<sub>50</sub> Rat = 49 g/kg (NLM\_CIP)

**4,4'-Methylenediphenyl diisocyanate  
 (CAS 101-68-8)**

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<p><b>Skin corrosion/irritation</b>  <b>Serious eye damage/eye</b>  <b>Irritation</b>  <b>Respiratory / Skin Sensitisation</b></p>	<p>Inhalation LC50 Rat = 369 mg/m<sup>3</sup> 4 h(NZ_CCID)                  Oral LD50 Rat = 31600 mg/kg (JAPAN_GHS)                  Causes skin irritation. Animal studies.</p>
<p><b>Carcinogenicity</b></p>	<p>None. Severe eye irritation.                  Causes sensitization. May cause allergic respiratory reaction. May cause allergic skin reaction. Isocyanates may cause acute irritation and/or sensitisation of the respiratory system leading to tightness of the chest, wheeziness and an asthmatic condition.</p>
<p><b>Germ cell mutagenicity</b></p>	<p>Suspected of causing cancer. Based on available data, the classification criteria are not met.</p>
<p><b>Reproductive toxicity</b></p>	<p>Based on available data, the classification criteria are not met.</p>
<p><b>Specific target organ toxicity (single exposure)</b>  <b>Specific target organ toxicity (repeated exposure)</b></p>	<p>Based on available data, the classification criteria are not met.                  May cause damage to organs (Lungs) if inhaled.                  May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.</p>
<p><b>Aspiration hazard</b>  <b>Human experience</b>  <b>Symptoms related to the physical, chemical and toxicological characteristics</b></p>	<p>No data available.                  Asthmatic appearance.                  Irritating to eyes. Irritating to respiratory system.                  Irritating to skin.</p>

<p><b>12. Ecological information</b>  <b>12.1. Toxicity</b></p>	<p>No data is available on the product itself. May change pH of waters.</p>
<p><b>12.2. Persistence and degradability</b></p>	<p>Expected to be biodegradable. Neutralization is normally necessary before waste water is discharged into water treatment plants.</p>
<p><b>12.3. Bioaccumulative potential</b></p>	<p>Bioconcentration factor (BCF): 200. Bioaccumulation is unlikely.</p>
<p><b>12.4. Mobility in soil</b></p>	<p>No data available.</p>
<p><b>12.5. Results of PBT and vPvB Assessment</b></p>	<p>This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).</p>
<p><b>12.6. Other adverse effects</b></p>	<p>No information available.</p>

<p><b>13. Disposal considerations</b>  <b>13.1. Waste treatment methods</b>  <b>Waste from residues / unused</b></p>	
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<b>products</b> <b>Contaminated packaging</b>	Dispose of in accordance with local regulations. Dispose of as unused product.
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<b>14. Transport information</b> <b>ADR/RID</b> <b>IMDG</b> <b>IATA</b> <b>Further Information</b>	Not regulated. Not regulated. Not regulated. Not classified as dangerous in the meaning of transport regulations.
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<b>15. Regulatory information</b>	
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>Regulatory Information</b> <b>4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)</b>	Storage class 10.
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See item 56[a]. (Conditions of restrictions 27 December 2010)
EU - REACH (1907/2006) – List of Registered Substances	Present
<b>15.2. Chemical safety assessment</b>	not applicable
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<b>16. Other information</b>	
<b>Key or legend to abbreviations and acronyms</b>	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS) DNEL: Derived No Effect Level . MAK: Maximale Arbeitsplatzkonzentration. PNEC: Predicted No Effect Concentration . STEL: Short Term Exposure Limit Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP).
<b>Classification procedure</b>	
<b>Full text of phrases referred to under sections 2 and 3</b>	H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H332: Harmful if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H351: Suspected of causing cancer.



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H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

**Further information**

Take notice of the directions of use on the label.