

# Safety data sheet

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

Printing date 09.06.2011

Version number 1

Revision: 09.06.2011

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** PRENOFIX 100/00
- **Article number:** 110908.BULK.00
- **Application of the substance / the preparation** Adhesives
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 EURO - LEDER GmbH & Co.  
 Werner-von-Siemens-Str. 35a  
 D - 49124 Georgsmarienhütte  
 Telefon: 05401/880 81 0  
 FAX: 05401/880 81 35  
 E-Mail: info@euro-service-depot.de
- **Informing department:**  
 Schneider Klaus Dr., Referat Umwelt  
 Phone: +49 (0)6331-528254  
 E-mail: Klaus.Schneider@forbo.com
- **Emergency telephone number:**  
 Giftinformationszentrum (GIZ), Mainz  
 Poison Emergency Telephone: +49 (0)6131-19240 or 0700/GIFTINFO  
 E-mail: mail@giftinfo.uni-mainz.de

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2      H225    Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2      H361d    Suspected of damaging the unborn child.  
 STOT RE 2      H373    May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Chronic 2    H411    Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2      H315    Causes skin irritation.  
 Eye Irrit. 2      H319    Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R48/20-63:    Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
                     Possible risk of harm to the unborn child.

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*Xi; Irritant**R36/38: Irritating to eyes and skin.**F; Highly flammable**R11: Highly flammable.**N; Dangerous for the environment**R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**R67: Vapours may cause drowsiness and dizziness.***Information concerning particular hazards for human and environment:***The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.**Has a narcotizing effect.***Classification system:***The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.***Label elements****Labelling according to EU guidelines:***The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)**The product has been labelled in accordance with EC Directives / relevant national laws.***Code letter and hazard designation of product:***Xn Harmful**F Highly flammable**N Dangerous for the environment***Hazard-determining components of labelling:***toluene***Risk phrases:***11 Highly flammable.**36/38 Irritating to eyes and skin.**48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.**51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**63 Possible risk of harm to the unborn child.**67 Vapours may cause drowsiness and dizziness.***Safety phrases:***9 Keep container in a well-ventilated place.**16 Keep away from sources of ignition - No smoking.**23 Do not breathe fumes.**26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**36/37 Wear suitable protective clothing and gloves.**57 Use appropriate container to avoid environmental contamination.***Special labelling of certain preparations:***Contains Rosin. May produce an allergic reaction.*

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:**

Adhesive.

Binding agent with colouring agents.

Organic solvents

- **Dangerous components:**

CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate Xi R36;  F R11 R66-67 Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	10-20%
EC number: 927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Xn R65;  Xi R38;  F R11;  N R51/53 R67 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336	10-20%
CAS: 92062-15-2 EINECS: 295-529-9	Solvent naphtha (petroleum), hydrotreated light naphthenic Xn R65;  Xi R38;  F R11;  N R51/53 R67 Flam. Liq. 2, H225;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336	10-20%
CAS: 108-88-3 EINECS: 203-625-9	toluene Xn R48/20-63-65;  Xi R38;  F R11 R67 Repr. Cat. 3 Flam. Liq. 2, H225;  Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304;  Skin Irrit. 2, H315; STOT SE 3, H336	10-20%
EC number: 931-254-9	Hydrocarbons, C6, isoalkanes, <5% n-hexane Xn R65;  Xi R38;  F R11;  N R51/53 R67 Flam. Liq. 1, H224;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315; STOT SE 3, H336	10-20%
CAS: 79-20-9 EINECS: 201-185-2	methyl acetate Xi R36;  F R11 R66-67 Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	5-10%
CAS: 8050-09-7 EINECS: 232-475-7	Rosin Xi R43 Skin Sens. 1, H317	0.1-1%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

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### 4 First aid measures

- **Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Instantly call for doctor.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Keep away from ignition sources  
Use breathing protection against the effects of fumes/dust/aerosol.  
Wear protective clothing.
- **Environmental precautions:**  
Inform respective authorities in case product reaches water or sewage system.  
Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 8 for information on personal protection equipment.

### 7 Handling and storage

- **Handling**
- **Precautions for safe handling**  
Keep containers tightly sealed.  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.

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- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.

### 8 Exposure controls/personal protection

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

#### · **Components with limit values that require monitoring at the workplace:**

<b>141-78-6 ethyl acetate</b>	
WEL ()	Short-term value: 400 ppm Long-term value: 200 ppm
<b>108-88-3 toluene</b>	
WEL ()	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm Long-term value: 191 mg/m <sup>3</sup> , 50 ppm Sk
<b>79-20-9 methyl acetate</b>	
WEL ()	Short-term value: 770 mg/m <sup>3</sup> , 250 ppm Long-term value: 616 mg/m <sup>3</sup> , 200 ppm

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to general rules for handling chemicals.  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing  
Wash hands during breaks and at the end of the work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves.

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.

#### · **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**



Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Fluid
<b>Colour:</b>	Ember coloured
<b>Odour:</b>	Characteristic

· **Change in condition**

<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	57 °C (DIN 53171)

· <b>Flash point:</b>	-26 °C (DIN 53213)
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· <b>Ignition temperature:</b>	450 °C (DIN 51794)
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· <b>Self-inflammability:</b>	Product is not selfigniting.
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· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
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· **Critical values for explosion:**

<b>Lower:</b>	0.7 Vol % (EN 1839)
<b>Upper:</b>	16.0 Vol % (EN 1839)

· <b>Vapour pressure at 20 °C:</b>	220 hPa (DIN 51640)
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· <b>Density at 20 °C</b>	0.85 g/cm <sup>3</sup> (DIN 51757)
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· **Solubility in / Miscibility with**

<b>Water:</b>	Not miscible or difficult to mix
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· **Viscosity:**

<b>dynamic at 20 °C:</b>	1100 mPas (Brookfield)
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· **Solvent content:**

<b>Organic solvents:</b>	80.7 %
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<b>Solids content:</b>	19.0 % (ISO 3251)
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## 10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Possibility of hazardous reactions** With appropriate storage conditions and handling: none.

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- **Hazardous decomposition products:**  
Possible in traces.  
Carbon monoxide and carbon dioxide

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

<b>141-78-6 ethyl acetate</b>		
Oral	LD50	5620 mg/kg (rat)
Inhalative	LC50/4h	11.72 mg/kg (rat)
<b>108-88-3 toluene</b>		
Oral	LD50	636 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rab)
Inhalative	LC50/4h	49 mg/kg (rat)
<b>79-20-9 methyl acetate</b>		
Oral	LD50	6970 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Irritant

## 12 Ecological information

- **Toxicity**

- **Acquatic toxicity:**

<b>141-78-6 ethyl acetate</b>	
EC50/48h	717 mg/l (Daphnia magna)
IC50/48h	3300 mg/l (Desmodesmus subspicatus)
LC50/96h	230 mg/l (Pimephales promelas)
<b>108-88-3 toluene</b>	
EC50/48h	11.5 mg/l (Daphnia magna)
IC50/72h	12 mg/l (Selenastrum capricornutum)
LC50/96h	36.2 mg/l (Pimephales promelas)
	13 mg/l (Carassius auratus)
<b>79-20-9 methyl acetate</b>	
EC50/48h	1027 mg/l (Daphnia magna)
LC50/96h	250 - 350 mg/l (Brachydanio rerio)

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- **Persistence and degradability**

**141-78-6 ethyl acetate**

Bio.Abbaubark./28 d 100 % (-)

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:**

Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (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.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

- **Uncleaned packagings:**

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

### 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID-GGVS/E Class:** 3 Flammable liquids.

- **Kemler Number:** 33

- **UN-Number:** 1133

- **Packaging group:** III

- **Label** 3

- **Special marking:** Symbol (fish and tree)

- **UN proper shipping name:** 1133 ADHESIVES, special provision 640H

- **Limited quantities (LQ)** LQ7

- **Transport category** 3

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· **Tunnel restriction code** D/E· **Maritime transport IMDG:**

· **IMDG Class:** 3  
 · **UN Number:** 1133  
 · **Label** 3  
 · **Packaging group:** III  
 · **EMS Number:** F-E,S-D  
 · **Marine pollutant:** Yes  
 Symbol (fish and tree)  
 · **Correct technical name:** ADHESIVES (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics, Solvent naphtha (petroleum), hydrotreated light naphthenic)

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 3  
 · **UN/ID Number:** 1133  
 · **Label** 3  
 · **Packaging group:** III  
 · **Correct technical name:** ADHESIVES

· **UN "Model Regulation":** UN1133, ADHESIVES, 3, III· **Environmental hazards:**

Product contains environmentally hazardous substances: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

· **Special precautions for user** Warning: Flammable liquids.

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **National regulations**· **Technical instructions (air):**

Class	Share in %
II	10-20
NK	50-100

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

## 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.

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**Relevant phrases**

- H224 Extremely flammable liquid and vapour.
- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- R11 Highly flammable.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R43 May cause sensitisation by skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R63 Possible risk of harm to the unborn child.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

**Contact:**

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**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)  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent