



# Material Safety Data Sheet

according to 91/155/EEC



**Product name :** Lacaux Hard Resist (2090)  
**Revision :** 18.05.2004      **Version :** 1.0.0  
**Print date :** 11.10.2004

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## **Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

## **Unsuitable extinguishing media**

Waterjet.

## **Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

## **Special protective equipment**

Appropriate breathing apparatus may be required.

## **Additional information**

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

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## **06. Accidental release measures**

### **Personal precautions**

Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

### **Environmental precautions**

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

### **Methods for cleaning up/collecting**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

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## **07. Handling and storage**

### **Information for safe handling**

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws. For personal protection see Section 8. Gas mask in case of spray processing.

### **Information about protection against explosions and fires**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

### **Requirements to be met by storerooms and containers**

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type.

### **Information about separation of incompatible products**

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

### **Further information about storage conditions**

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Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking. Keep containers dry and cool. Keep containers in a well-ventilated place. Comply with the health and safety at work laws.

**Storage class (VCI) :** 12

## 08. Exposure controls and personal protection

### Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn.

### Components with critical values that require monitoring at the workplace (exposure limits)

N-METHYL-2-PYRROLIDONE ; CAS-No. : 872-50-4

**Specification :** TRGS 900 - maximum limit in the atmosphere at the workplace ( D )  
**Value :** 19 ppm / 80 mg/m<sup>3</sup>  
**Category :** 4  
**Remarks :** H,Y  
**Version date :** 01.09.2001

### Personal protective equipment

#### Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

#### Hand protection

Solvent-resistant protective gloves must be worn. For prolonged or repeated handling, use barrier creams to protect the exposed areas of the skin.

#### Eye protection

Use safety glasses.

#### Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact. After skin contact wash thoroughly with soap and water or use recognised skin cleanser. Do Not use solvents or thinners.

## 09. Physical and chemical properties

### Image

**Form :** Liquid.  
**Colour :** Slight-brownish.  
**Odour :** Characteristic.

### Relevant safety data

<b>Boiling point / range :</b>	( 1013 hPa )	ca.	100	°C
<b>Flash point :</b>			not applicable	
<b>Vapour pressure :</b>	( 50 °C )	ca.	120	hPa
<b>Density :</b>	( 20 °C )	ca.	1	g/cm <sup>3</sup>
<b>pH value :</b>			8 - 8.5	
<b>Viscosity :</b>	( 20 °C )	ca.	300	mPa.s

## 10. Stability and reactivity

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## Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

## Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

## Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

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## 11. Toxicological information

### Experience on practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

### Additional toxicological information

There no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

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## 12. Ecological information

### Additional ecological information

#### General ecological information

There are no data available on the product itself. Do not empty into waters or drains.

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## 13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

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## 14. Transport information

### Land transport ADR/RID and GGVS/GGVE (2000)

#### Classification

Class : -

### Land transport ADR/RID (2001)

#### Classification

Class : -

### Maritime transport IMDG/GGVSea

#### Classification

IMDG-Code : -

### Air transport ICAO-TI and IATA-DGR

#### Classification

Class : -

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## 15. Regulatory information

### Classification according to EEC directives

#### Special designation for certain preparations

101                      Safety data sheet available for professional user on request.

### National regulatory information

#### Regulation on inflammable liquids (VbF)

VbF-Class : Not dangerous according to VbF

#### Emission control act ("TA-Luft")

Sum organic substances class I : < 5 %

Sum organic substances class II : < 5 %

Sum organic substances class III : 5 - 10 %

#### Water pollution classification

Class : 1 according VwVwS

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## 16. Other information

### Further information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

#### R-Phrases of components

36                      Irritating to eyes  
36/38                      Irritating to eyes and skin

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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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