

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 16.11.2009

Revision: 16.11.2009

1 Identification of substance:

- **Product details:**
- **Trade name: MELLERUD Mould Remover**
- **Article number:** 2001000493
- **EAN-Code:** 4004666000493
- **Application of the substance / the preparation** Biocide
- **Manufacturer/Supplier:**
MELLERUD CHEMIE GmbH
Bernhard-Röttgen-Waldweg 20
41379 Brüggen
Germany

- **Informing department:**
Department Research & Development
E-Mail: labor@mellerud.de
- **Emergency information:**
Poison Emergency Call Berlin (Day and Night)
+ 49 (0)30/30686790

2 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man 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.
R 22 Harmful if swallowed.
R 41 Risk of serious damage to eyes.
- **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.

3 Composition/information on ingredients

- **Chemical characterization**

- **Ingredients according with EU recommendation:**

oxygen-based bleaching agents	5 - 15%
non-ionic surfactants, phosphonates, perfumes (LIMONENE)	< 5%

- **Dangerous components:**

CAS: 7722-84-1 EINECS: 231-765-0	hydrogen peroxide solution	C, Xn, O; R 5-8-20/22-35	< 10%
CAS: 69011-36-5 NLP: 500-241-6	fatty alcohol C13 EO	Xn, Xi; R 22-41	< 5%

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

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4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly rinse with water.
- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.
- **Information for doctor**
- **The following symptoms may occur:**
Direct contact with skin results in white marks. The white marks will be gone in 2 hours, after treating the marks with skincreme.

5 Fire fighting measures

- **Suitable extinguishing agents** Water haze
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Protective equipment:** Put on breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Prevent formation of aerosols.
Keep away from heat and direct sunlight.
- **Information about protection against explosions and fires:** Protect from heat.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in cool location.
Store only in the original container.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from contamination
Store in a cool place. Heat will increase pressure and may lead to the container exploding.
Do not leave any produkt in the bottle, when you despose it.

8 Exposure controls and personal protection

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

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

7722-84-1 hydrogen peroxide solution

OES	Short-term value: 2.8 mg/m ³ , 2 ppm
	Long-term value: 1.4 mg/m ³ , 1 ppm

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

· **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.
Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves.

· **Material of gloves**

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.

Natural rubber, NR

Recommended thickness of the material: ≥ 0.5 mm

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.35 mm

Chloroprene rubber, CR

Recommended thickness of the material: ≥ 0.5 mm

· **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.

· **Eye protection:**



Tightly sealed safety glasses.

9 Physical and chemical properties:

· **General Information**

Form:	Fluid
Colour:	Yellow
Smell:	Perfumed

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: 100°C

- **Flash point:** Not applicable
- **Ignition temperature:** 340°C
- **Self-inflammability:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive.
- **Steam pressure at 20°C:** 23 hPa
- **Density at 20°C** 1.052 g/cm³

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- **Solubility in / Miscibility with**
- Water:** Fully miscible
- **pH-value at 20°C:** 3.0 < pH ≤ 4.0
- **Viscosity:**
- kinematic at 20°C:** 20 s (DIN 53211/4)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** Reacts with impurities

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
The specifications only count for the undiluted substance.
- **Primary irritant effect:**
- **on the skin:**
Irritant for skin and mucous membranes.
Skin and mucous membrane: With rising concentration and contact time irritation, redness
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **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:
Harmful

12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** In soil and waste water the product dissociate in water and oxygen.
- **Ecotoxic effects:**

· **Acquatic toxicity:**

7722-84-1 hydrogen peroxide solution

EC50 / 48 h 2.4 mg/l (daphnia)

LC50 / 96 h 37.4 mg/l (fisch)

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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13 Disposal considerations

- **Product:**
- **Recommendation**
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
- **Uncleaned packagings:**
- **Recommendation:**
Packaging can be reused or recycled after cleaning.
Dispose of packaging according to regulations on the disposal of packagings.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

· **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 5.1 (O1) Oxidising substances.
- **Kemler Number:** 50
- **UN-Number:** 2984
- **Packaging group:** III
- **Label** 5.1
- **Designation of goods:** 2015 HYDROGEN PEROXIDE, AQUEOUS SOLUTION, STABILIZED
- **Limited quantities (LQ)** LQ13
- **Transport category** 3
- **Tunnel restriction code** E

· **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 5.1
- **UN Number:** 2984
- **Label** 5.1
- **Packaging group:** III
- **EMS Number:** F-H,S-Q
- **Correct technical name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

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



- **ICAO/IATA Class:** 5.1
- **UN/ID Number:** 2984
- **Label** 5.1
- **Packaging group:** III

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· **Correct technical name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**



Xn Harmful

· **Hazard-determining components of labelling:**

hydrogen peroxide solution

· **Risk phrases:**

22 Harmful if swallowed.

41 Risk of serious damage to eyes.

· **Safety phrases:**

1/2 Keep locked up and out of the reach of children.

23 Do not breathe fumes.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

46 If swallowed, seek medical advice immediately and show this container or label.

· **National regulations**

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.

· **Relevant R-phrases**

20/22 Harmful by inhalation and if swallowed.

22 Harmful if swallowed.

35 Causes severe burns.

41 Risk of serious damage to eyes.

5 Heating may cause an explosion.

8 Contact with combustible material may cause fire.

· **Department issuing data specification sheet:** Department research & development