

# Material Safety Data Sheet

## According to 91/155 EC

Printing date 29.09.2003

Reviewed on 29.09.2003

### 1 Identification of substance:

· **Product details:**

· **Trade name:** *TM DESANA MAX fp*

· **Application of the substance / the preparation** Alkaline cleaner/ detergent

· **Manufacturer/Supplier:**

THONHAUSER GmbH

Reinigungstechnik & Biotechnologie

Salitergasse 26

A-2380 Perchtoldsdorf

Tel.: +43/1/8694182

· **Informing department:** Product safety department.

· **Emergency information:** Vergiftungsinformationszentrale +43/1/406 43 43

### 2 Composition/Data on components:

· **Chemical characterization**

· **Description:**

Mixture of the substances listed below with harmless additions.

Cleaning agent

· **Dangerous components:**

CAS: 1310-73-2	sodium hydroxide	C; R 35	50-100%
EINECS: 215-185-5			
	disodium peroxodisulphate	Xn, O; R 8-22-42/43	10-25%

### 3 Hazards identification

· **Hazard designation:**



C Corrosive

· **Information pertaining to particular dangers for man and environment**

R 35 Causes severe burns.

R 42/43 May cause sensitisation by inhalation and skin contact.

· **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.

### 4 First aid measures

· **General information** Instantly remove any clothing soiled by the product.

· **After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

· **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**

Do not induce vomiting; instantly call for medical help.

Rinse out mouth and then drink plenty of water.

### 5 Fire fighting measures

· **Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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- **Protective equipment:** Put on breathing apparatus.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or water bodies.  
Dilute with much water.
- **Measures for cleaning/collecting:**  
Collect mechanically.  
Dispose of contaminated material as waste according to item 13.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:**  
Thorough dedusting.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Protect from heat.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed containers.  
Protect from heat and direct sunlight.

### 8 Exposure controls and personal protection

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

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

<b>1310-73-2 sodium hydroxide</b>	
OES	Short-term value: 2 mg/m <sup>3</sup>
<b>disodium peroxodisulphate</b>	
OES	Long-term value: 1 mg/m <sup>3</sup> measured as [S2O8]

- **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 necessary if room is well-ventilated.
- **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.
- **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:** Safety glasses
- **Body protection:** Alkaline resistant protective clothing

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### \* 9 Physical and chemical properties:

· <b>General Information</b>	
· <b>Form:</b>	Solid.
· <b>Colour:</b>	White
· <b>Smell:</b>	Odourless
· <b>Change in condition</b>	
· <b>Melting point/Melting range:</b>	Not determined
· <b>Boiling point/Boiling range:</b>	1390°C
· <b>Flash point:</b>	Not applicable
· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b>	68.5°C
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Heating may cause an explosion.
· <b>Density at 20°C</b>	2 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Soluble
· <b>pH-value at 20°C:</b>	14

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.  
To avoid thermal decomposition do not overheat.  
Exothermic thermal decomposition
- **Dangerous reactions** Strong exothermic reaction with acids
- **Dangerous products of composition:**  
Sulphur oxides (SO<sub>x</sub>)  
Oxygen

### \* 11 Toxicological information

- **Acute toxicity:**

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

**1310-73-2 sodium hydroxide**

Oral LD50 2000 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.

- **Sensitization:**

Sensitization possible by inhalation.  
Sensitization possible by skin contact.

- **Additional toxicological information:**

Corrosive  
Harmful  
Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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:

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### 12 Ecological information:

- **General notes:**

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

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### \*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:** Disposal must be made according to official regulations.

- **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:** 8 Corrosive substances.

- **Kemler Number:** 80

- **UN-Number:** 3262

- **Packaging group:** II

- **Label** 8

- **Designation of goods:** 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 8

- **UN Number:** 3262

- **Label** 8

- **Packaging group:** II

- **EMS Number:** F-A,S-B

- **Marine pollutant:** No

- **Correct technical name:** Corrosive solid, basic, inorganic, n.o.s., sodium hydroxide

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



- **ICAO/IATA Class:** 8

- **UN/ID Number:** 3262

- **Label** 8

- **Packaging group:** II

- **Correct technical name:** Corrosive solid, basic, inorganic, n.o.s., sodium hydroxide

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### \*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:**



C Corrosive

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

*disodium peroxodisulphate*

*sodium hydroxide*

· **Risk phrases:**

35 *Causes severe burns.*

42/43 *May cause sensitisation by inhalation and skin contact.*

· **Safety phrases:**

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

28 *After contact with skin, wash immediately with plenty of water.*

36/37/39 *Wear suitable protective clothing, gloves and eye/face protection.*

45 *In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

· **National regulations**

· **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**

22 *Harmful if swallowed.*

35 *Causes severe burns.*

42/43 *May cause sensitisation by inhalation and skin contact.*

8 *Contact with combustible material may cause fire.*

· **Department issuing data specification sheet:** *Environment protection department.*

· **\* Data compared to the previous version altered.**