

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# Chemetall

## Naftoseal MC-238 A Hardener

Version: 5 07.10.2008

Print Date 02.03.2009

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

English

#### Product information

Commercial Product Name Naftoseal MC-238 A Hardener

#### Recommended use:

Hardener

Company: Chemetall GmbH  
Trakehner Strasse 3  
60487 Frankfurt a.M.

Lead Organisation: Aerospace Technologies  
Contact person:  
Telephone: +49(0)69 7165-3822  
Telefax: +49(0)69 7165-3018

Product safety:  
Telephone: +49(0)6971652832  
E-mail address: msds.de@chemetall.com

Emergency telephone: +49(0)5326 51-0

### 2. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

#### Classification:

Harmful R20/22 Harmful by inhalation and if swallowed.

Irritant R36/38 Irritating to eyes and skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

**Manganese dioxide** 25.00 - 50.00 %  
CAS-No.: 1313-13-9 EINECS-No.: 215-202-6  
Classification: Xn; R20/22

**Sodium hydroxide** 0.50 - 1.00 %  
CAS-No.: 1310-73-2 EINECS-No.: 215-185-5  
Classification: C; R35

**Phthalic-anhydride** 0.10 - 1.00 %  
CAS-No.: 85-44-9 EINECS-No.: 201-607-5  
Classification: R42/43 Xi; R37/38, R41 Xn; R22

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### 4. FIRST AID MEASURES

**General advice:**

Take off contaminated clothing and shoes immediately.

**Eye contact:**

Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

**Skin contact:**

Wash off with soap and plenty of water. If symptoms persist, call a physician.

**Inhalation:**

Move to fresh air. If symptoms persist, call a physician.

**Ingestion:**

Rinse mouth. Do NOT induce vomiting. If swallowed, seek medical advice immediately and show this container or label.

### 5. FIRE-FIGHTING MEASURES

**Specific hazards during fire fighting:**

May form toxic gases on heating or in case of fire.

**Special protective equipment for fire-fighters:**

In the event of fire, wear self-contained breathing apparatus.

**Suitable extinguishing media:**

Carbon dioxide (CO<sub>2</sub>), Dry powder, Alcohol-resistant foam, Water spray

**Extinguishing media which shall not be used for safety reasons:**

High volume water jet

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Ensure adequate ventilation. Wear personal protective equipment.

**Environmental precautions:**

Do not flush into surface water or sanitary sewer system. Inform the relevant authorities if it enters sewers, aquatic environment or soil.

**Methods for cleaning up:**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.

### 7. HANDLING AND STORAGE

**Handling**

**Safe handling advice:**

Provide sufficient air exchange and/or exhaust in work rooms. Have eye wash bottle or eye rinse ready at the work place.

**Storage**

**Requirements for storage areas and containers:**

Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Personal protective equipment

##### Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment. respirator with a filter

##### Hand protection:

General advice: Neoprene gloves, Rubber gloves, Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

##### Eye protection:

Tightly fitting safety goggles

##### Skin and body protection:

Lightweight protective clothing

##### Hygiene measures:

Take off contaminated clothing and shoes immediately. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and immediately after handling the product. Avoid contact with skin and eyes. Do not breathe vapour.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	black
Flash point:	199 °C
Ignition temperature:	235 °C
Autoignition temperature:	not auto-flammable
Explosive properties	
Lower explosion limit:	no explosion risk
Density:	1.59 g/cm <sup>3</sup> at 20 °C
Water solubility:	immiscible

### 10. STABILITY AND REACTIVITY

#### Conditions to avoid:

Protect from frost, heat and sunlight.

#### Hazardous decomposition products:

No decomposition if stored and applied as directed.

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### 11. TOXICOLOGICAL INFORMATION

**Skin irritation:**

Irritating to skin.

**Eye irritation:**

Irritating to eyes.

**Human experience:**

Harmful if swallowed.

### 12. ECOLOGICAL INFORMATION

**Elimination information (persistence and degradability):**

**Biodegradability:**

Remarks: no data available

**Further information:**

slightly water endangering Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

### 13. DISPOSAL CONSIDERATIONS

**Waste key for the unused product:**

080409 waste adhesives and sealants containing organic solvents or other dangerous substances

**Product:**

Dispose of in accordance with local regulations.

**Contaminated packaging:**

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

### 15. REGULATORY INFORMATION

**Hazardous components which must be listed on the label:**

- Manganese dioxide

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### Contains:

- Phthalic-anhydride

May produce an allergic reaction.

Labelling:



Harmful

R-phrase(s):

R20/22  
R36/38

Harmful by inhalation and if swallowed.  
Irritating to eyes and skin.

S-phrase(s):

S 9  
S24/25  
S26  
S37/39

Keep container in a well-ventilated place.  
Avoid contact with skin and eyes.  
In case of contact with eyes, rinse immediately with  
plenty of water and seek medical advice.  
Wear suitable gloves and eye/face protection.

### National legislation

#### Water contaminating class (Germany):

WGK 1 : slightly water endangering  
VWVWS A4

## 16. OTHER INFORMATION

### Text of R phrases mentioned in Section 3

**R20/22** Harmful by inhalation and if swallowed.

**R22** Harmful if swallowed.

**R35** Causes severe burns.

**R37/38** Irritating to respiratory system and skin.

**R41** Risk of serious damage to eyes.

**R42/43** May cause sensitization by inhalation and skin contact.

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.