

# Safety data sheet

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PT BASF Indonesia Safety data sheet

Date / Revised: 29.01.2010

Product: **MASTERSEAL 581**

Version: 1.0

(30447964/SDS\_GEN\_ID/EN)

Date of print 30.01.2010

## 1. Substance/preparation and company identification

### **MASTERSEAL 581**

Use: Product for construction chemicals

#### Company:

PT BASF Indonesia

Plaza GRI, 10th &amp; 11th Floor Jl. H.R. Rasuna Said Blok X-2 No.1

Jakarta Selatan 12950, P.O. Box 2431 Gbr., Jakarta 10024, INDONESIA

Telephone: +62 21 526-2481 /-2505

Telefax number: +62 21 526-2493/-2515

#### Emergency information:

Telephone: +62 21 543-71979

## 2. Composition/information on ingredients

### Chemical nature

modified cement mortar

### Hazardous ingredients

EB auxiliary data; Template for tox/ecotox. data; Cement &lt;2 ppm Cr VI

Content (W/W): &gt; 20 % - &lt; 40 %

CAS Number: 65997-15-1

EC-Number: 266-043-4

Hazard symbol(s): Xi

R-phrases(s): 37/38, 41

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Calcium dihydroxide

Content (W/W):  $\geq 1\%$  -  $\leq 10\%$

CAS Number: 1305-62-0

EC-Number: 215-137-3

Hazard symbol(s): Xi

R-phrase(s): 38, 41

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

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### 3. Hazard identification

Irritating to respiratory system and skin.

Risk of serious damage to eyes.

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### 4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

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### 5. Fire-Fighting Measures

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

### Personal precautions:

Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

### Environmental precautions:

No special precautions necessary.

### Methods for cleaning up or taking up:

Sweep/shovel up.

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## 7. Handling and Storage

### Handling

Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

### Protection against fire and explosion:

No special precautions necessary.

### Storage

Suitable materials for containers: High density polyethylene (HDPE)

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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## 8. Exposure controls and personal protection

### Components with workplace control parameters

Cement, portland, chemicals, 65997-15-1;

TWA value 10 mg/m<sup>3</sup> (ACGIHTLV)

The value is for particulate matter containing no asbestos and <1% crystalline silica.

TWA value 10 mg/m<sup>3</sup> (OEL (ID)), Inhalable particles

The value is for particulate matter containing no asbestos and <1% crystalline silica.

Calcium dihydroxide, 1305-62-0;

TWA value 5 mg/m<sup>3</sup> (ACGIHTLV)

TWA value 5 mg/m<sup>3</sup> (OEL (ID))

#### Personal protective equipment

Respiratory protection:  
Breathing protection if dusts are formed.

Hand protection:  
nitrile coated cotton gloves (e.g. EN 388, 374)

Eye protection:  
Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:  
Body protection must be chosen based on level of activity and exposure., light protective clothing

#### General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

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## 9. Physical and Chemical Properties

Form:	powder
Colour:	grey
Odour:	odourless
pH value:	approx. 12 (20 °C) (as aqueous suspension)
Melting point:	not applicable
Boiling point:	not applicable
Flash point:	not applicable
Flammability:	Not flammable
Explosion hazard:	not explosive
Vapour pressure:	not applicable
Density:	not applicable
Bulk density:	1,800 - 2,400 kg/m <sup>3</sup>
Solubility in water:	dispersible (20 °C)

## 10. Stability and Reactivity

Conditions to avoid:  
See MSDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Hazardous reactions:  
The product is stable if stored and handled as prescribed/indicated.

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## 11. Toxicological Information

### Acute toxicity

LD50 (oral): > 5,000 mg/kg  
No systemic toxicity

### Irritation

Primary skin irritation: Irritant.

Primary irritations of the mucous membrane: Risk of serious damage to eyes.

### Sensitization

Assessment of sensitization:  
Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

### Carcinogenicity

Assessment of carcinogenicity:  
The whole of the information available provides no indication of a carcinogenic effect.

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## 12. Ecological Information

### Ecotoxicity

Assessment of aquatic toxicity:  
There is a high probability that the product is not acutely harmful to aquatic organisms.  
The product gives rise to pH shifts.

Aquatic invertebrates:  
LC50 (48 h) > 100 mg/l, *Daphnia magna* (static)

Aquatic plants:  
EC50 (96 h) > 100 mg/l (growth rate), *Selenastrum capricornutum* (static)

Soil living organisms:

LC50 (10 d) 9,931 mg/kg, other soil dwelling arthropod

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

Elimination information:  
not applicable

### **Bioaccumulation potential**

Assessment bioaccumulation potential:

The product will not be readily bioavailable due to its consistency and insolubility in water.

### **Additional information**

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## **13. Disposal Considerations**

Observe national and local legal requirements.

Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:

Completely emptied packagings can be given for recycling.

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## **14. Transport Information**

### **Domestic transport:**

Not classified as a dangerous good under transport regulations

### **Sea transport IMDG**

Not classified as a dangerous good under transport regulations

### **Air transport IATA/ICAO**

Not classified as a dangerous good under transport regulations

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## 15. Regulatory Information

### Regulations of the European union (Labelling)

#### Directive 1999/45/EC ('Preparation Directive'):

Hazard symbol(s)	
Xi	Irritant.
R-phrases(s)	
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
S-phrases(s)	
S2	Keep out of the reach of children.
S22	Do not breathe dust.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28.1	After contact with skin, wash immediately with plenty of water and soap.
S27	Take off immediately all contaminated clothing.
S37/39	Wear suitable gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.

The product is classified and labelled in accordance with EC Directives.

### Other regulations

## 16. Other Information

Due to the merger of Degussa Construction chemicals and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us under the address mentioned in Section I.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

Xi	Irritant.
37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
38	Irritating to skin.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.