SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

**MasterSeal 541 grey PART A**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Product for construction chemicals

1.3. Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Company:</th>
<th>Contact address:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASF Construction Chemicals Egypt</td>
<td>BASF SE</td>
</tr>
<tr>
<td>Factory: Piece 118, Zone 4</td>
<td>67056 Ludwigshafen</td>
</tr>
<tr>
<td>Sadat City - Monoufaia, Egypt</td>
<td>GERMANY</td>
</tr>
</tbody>
</table>

Telephone: +49 621 60-0
E-mail address: global.info@basf.com

1.4. Emergency telephone number

International emergency number:
Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

**According to Regulation (EC) No 1272/2008 [CLP]**

- Skin Corr./Irrit. 2
- Eye Dam./Irrit. 1
- STOT SE 3 (irritating to respiratory system)
STOT RE (Lung) 2
H318, H315, H335, H373

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:

Signal Word:
Danger

Hazard Statement:
H318 Causes serious eye damage.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H373 May cause damage to organs (Lung) through prolonged or repeated exposure.

Precautionary Statements (Prevention):
P280 Wear protective gloves and eye/face protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust/gas/mist/vapours.
P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to hazardous or special waste collection point.
According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: Cement, portland, chemicals, Quartz (SiO2) <63µm

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature
modified cement mortar

Hazardous ingredients (GHS)
according to Regulation (EC) No. 1272/2008

Cement, portland, chemicals
- Content (W/W): >= 20 % - < 75 %
- CAS Number: 65997-15-1
- EC-Number: 266-043-4
- Skin Corr./Irrit. 2
- Eye Dam./Irrit. 1
- STOT SE 3 (irr. to respiratory syst.)
- H318, H315, H335

Quartz (SiO2) <63µm
- Content (W/W): >= 1 % - < 10 %
- CAS Number: 14808-60-7
- EC-Number: 238-878-4
- STOT RE (Lung) 1 (by inhalation)
- H372

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures
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.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media
Additional information:
Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.

5.2. Special hazards arising from the substance or mixture
Product is not combustible or explosive. No particular hazards known.

5.3. Advice for fire-fighters
Special protective equipment:
Wear a self-contained breathing apparatus.

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.
SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

6.2. Environmental precautions
Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up
Sweep/shovel up.

6.4. Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe 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.

7.2. Conditions for safe storage, including any incompatibilities
Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

7.3. Specific end use(s)
For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits
8.2. Exposure controls

Personal protective equipment

Respiratory protection:
Breathing protection if dusts are formed. (Particle filter EN 143 P2 or FFP2)

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). Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form: powder
Odour: product specific
Odour threshold: Not determined due to potential health hazard by inhalation.

pH value:
approx. 11 - 13 
(20 °C) 
(as aqueous suspension)

Melting point: not determined

boiling temperature: not determined
Flash point: Non-flammable.
Flammability: not flammable
Lower explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Solubility in water: emulsifiable
Self ignition: not self-igniting
Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
Explosion hazard: not explosive
Fire promoting properties: not fire-propagating

9.2. Other information

Self heating ability: Study does not need to be conducted.

Bulk density: 1,800 - 2,400 kg/m3
Miscibility with water: miscible
Hygroscopy: hygroscopic
Solids content: 100 %

Other Information: If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

10.1. Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability
The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions
The product is stable if stored and handled as prescribed/indicated.

10.4. Conditions to avoid


See MSDS section 7 - Handling and storage.

**10.5. Incompatible materials**

Substances to avoid:
strong bases, strong acids

**10.6. Hazardous decomposition products**

No hazardous decomposition products if stored and handled as prescribed/indicated.

---

**SECTION 11: Toxicological Information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Assessment of acute toxicity:
Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. The product has not been tested. The statement has been derived from the properties of the individual components.

**Irritation**

Assessment of irritating effects:
Skin contact causes irritation. May cause severe damage to the eyes.

*Information on: Cement, portland, chemicals*

*Experimental/calculated data:*

*Skin corrosion/irritation rabbit: Irritant.*

*-----------

*Information on: Cement, portland, chemicals*

*Experimental/calculated data:*

*Serious eye damage/irritation rabbit: irreversible damage*

*-----------

**Respiratory/Skin sensitization**

Assessment of sensitization:
There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-live is unlikely.

**Germ cell mutagenicity**

Assessment of mutagenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:
The chemical structure does not suggest a specific alert for such an effect. Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Assessment of STOT single:
Causes temporary irritation of the respiratory tract.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Repeated inhalative uptake of particles/dust reaching the alveoli may cause damage to the lungs.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12: Ecological Information

12.1. Toxicity

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. Based on available Data, the classification criteria are not met.

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):
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.

Not applicable for inorganic substances.

Elimination information:
not determined

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

Assessment transport between environmental compartments:
Volutility: The substance will not evaporate into the atmosphere from the water surface. Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

### 12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.7. Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

---

**SECTION 13: Disposal Considerations**

### 13.1. Waste treatment methods

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.

### SECTION 14: Transport Information

#### Land transport

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<td>UN number:</td>
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<tr>
<td>UN proper shipping name:</td>
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<tr>
<td>Transport hazard class(es):</td>
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<tr>
<td>Packing group:</td>
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<td>Environmental hazards:</td>
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<td>Special precautions for user</td>
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#### RID

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<td>UN proper shipping name:</td>
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<td>Environmental hazards:</td>
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<tr>
<td>Special precautions for user</td>
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#### Inland waterway transport

<table>
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</thead>
<tbody>
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<td>UN number:</td>
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<tr>
<td>UN proper shipping name:</td>
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<td>Transport hazard class(es):</td>
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<td>Packing group:</td>
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<tr>
<td>Environmental hazards:</td>
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<tr>
<td>Special precautions for user</td>
</tr>
</tbody>
</table>

**Transport in inland waterway vessel**

Not evaluated

#### Sea transport
IMDG

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
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<tbody>
<tr>
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<tr>
<td>Packing group</td>
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<tr>
<td>Environmental hazards</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None known</td>
</tr>
</tbody>
</table>

**Air transport**

14.1. **UN number**
See corresponding entries for “UN number” for the respective regulations in the tables above.

14.2. **UN proper shipping name**
See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

14.3. **Transport hazard class(es)**
See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4. **Packing group**
See corresponding entries for “Packing group” for the respective regulations in the tables above.

14.5. **Environmental hazards**
See corresponding entries for “Environmental hazards” for the respective regulations in the tables above.

14.6. **Special precautions for user**
See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.
14. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation: Not evaluated
Shipments approved: Not evaluated
Pollution name: Not evaluated
Pollution category: Not evaluated
Ship Type: Not evaluated

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

15.2. Chemical Safety Assessment

Chemical Safety Assessment not required

SECTION 16: Other Information

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

- Skin Corr./Irrit.: Skin corrosion/irritation
- Eye Dam./Irrit.: Serious eye damage/eye irritation
- STOT SE: Specific target organ toxicity — single exposure
- STOT RE: Specific target organ toxicity — repeated exposure
- H318: Causes serious eye damage.
- H315: Causes skin irritation.
- H335: May cause respiratory irritation.
- H373: May cause damage to organs (Lung) through prolonged or repeated exposure.
- H372: Causes damage to organs (Lung) through prolonged or repeated exposure (inhalation).

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. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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