

Safety data sheet

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BASF Safety data sheet
Date / Revised: 14.03.2011
Product: **EMACO R1**(30454441/SDS_GEN_SG/EN)

Version: 1.0

Date of print 18.08.2011

1. Substance/preparation and company identification

EMACO R1

Company:

BASF South East Asia Pte Ltd.
7 Temasek Boulevard,
#35-01 Suntec Tower One, 038987, SINGAPORE
Telephone: +65 6 337-0330
Telefax number: +65 6 334-0330
E-mail address: tommy.chng@basf.com

Emergency information:

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

2. Hazard identification

Classification of the substance and mixture:

Skin corrosion/irritation: Cat. 2

Serious eye damage/eye irritation: Cat. 1

Specific target organ toxicity following single exposure: Cat. 3 (irritating to respiratory system)

Label elements and precautionary statement:

Pictogram:



Signal Word:

Danger

Hazard Statement:

Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

Precautionary Statements (Prevention):

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Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wash with plenty of water and soap thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements (Response):

Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (on hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see on this label). Take off contaminated clothing and wash before reuse.

Precautionary Statements (Storage):

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements (Disposal):

Dispose of contents/container to hazardous or special waste collection point.

Other hazards which do not result in classification:

No data available.

3. Composition/information on ingredients

Chemical nature

modified cement mortar

Hazardous ingredients

Portland cement (< 2ppm Cr VI)

Content (W/W): >= 25 % - <= 50 % Skin corr./irr.: Cat. 2

CAS Number: 65997-15-1 Eye dam./irr.: Cat. 1

STOT single: Cat. 3 (irr. to respiratory syst.)

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.

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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.

Note to physician:

Symptoms: Eye irritation, skin irritation, irritation of the mucous membranes

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Additional information:

Product itself is non-combustible. Only the packaging materials can catch fire. The generally usual extinguishing agents to esteem for sufficient.

Specific hazards:

Product is not combustible or explosive. No particular hazards known.

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.

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.

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: paper

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

8. Exposure controls and personal protection

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).

9. Physical and Chemical Properties

Form: powder
Colour: dark grey
Odour: odourless

pH value: > 12
(2 %(m), 25 °C)

: not applicable

Flammability (solid/gas): does not ignite

Lower explosion limit: not applicable

Upper explosion limit: not applicable

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

Self ignition: not self-igniting

Self heating ability: It is not a substance capable of spontaneous heating.

Explosion hazard: not explosive

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Fire promoting properties: not fire-propagating

Vapour pressure:
not applicable

Density:
not applicable

Bulk density: 2,300 - 2,800 kg/m³

Miscibility with water:
immiscible

Hygroscopy: hygroscopic

Viscosity, dynamic:
not applicable

Viscosity, kinematic:
not applicable

Solids content: 100 %

Other Information:

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

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.

Substances to avoid:
strong bases, strong acids

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

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

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

11. Toxicological Information

Acute toxicity

Assessment of acute toxicity:

The product has not been tested. The statement has been derived from products of a similar structure or composition.

Experimental/calculated data:

LD50 (oral): > 5,000 mg/kg

No systemic toxicity.

Irritation

Assessment of irritating effects:

Causes temporary irritation of the respiratory tract. Skin contact causes irritation. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Experimental/calculated data:

Serious eye damage/irritation: Irritant.

Respiratory/Skin sensitization**Assessment of sensitization:**

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

Germ cell mutagenicity**Assessment of mutagenicity:**

The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity**Assessment of carcinogenicity:**

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

Reproductive toxicity**Assessment of reproduction toxicity:**

The chemical structure does not suggest such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Developmental toxicity**Assessment of teratogenicity:**

The chemical structure does not suggest such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**Assessment of repeated dose toxicity:**

The product has not been tested. The statement has been derived from the properties of the individual components.

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 products of a similar structure and composition.

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

Mobility**Assessment transport between environmental compartments:**

The substance will not evaporate into the atmosphere from the water surface.

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

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 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.

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.

14. Transport Information**Domestic transport:**

Not classified as a dangerous good under transport 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.

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

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.