

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product: MONOTECT
Company: Ronacrete (Far East) Ltd., 16/F, No. 3 Lockhart Rd,
Wanchai, Hong Kong SAR
Tel/Fax: +852 2865 5872 / +852 2865 5568

2. COMPOSITION/INFORMATION ON INGREDIENTS

A solution of Sodium Silicate.

CAS No: 1344-09-83

3. HAZARDS IDENTIFICATION

An alkaline material which may cause chemical burn to the skin and eyes. The danger being greater with hot solutions.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. Keep warm and at rest.

Skin Contact: Remove contaminated clothing. Wash affected area with copious quantities of water until no soapy feeling remains. Obtain medical attention if irritation persists.

Eye Contact: Speed is essential. The eye should be thoroughly irrigated for not less than 20 minutes with clean water. This prolonged irrigation is of extreme importance and must be done at once otherwise permanent damage will result. Continue irrigation until medical attention can be obtained.

Ingestion: Wash out mouth with water and give sips of water or milk to drink to soothe the affected parts. Obtain medical attention. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Non-combustible.

6. ACCIDENTAL RELEASE MEASURES

In the event of accidental release avoid contact with the product. Ventilate the area to dispel airborne concentrations, protective clothing and (under severe conditions) breathing apparatus should be worn when dealing with spillage.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Atmospheric levels of mist should be maintained at the lowest level reasonably practical. Use a fan jet nozzle if sprayed.

Storage: Store in well ventilated area away from incompatible chemicals or material. Store in closed steel or any suitable vessels which prevent the free circulation of air over the surface of the material. If not exposed to the atmosphere solution will keep indefinitely. Drums must be kept close when not in use. The product absorbs carbon dioxide on exposure to the atmosphere and may even loose water resulting in a formation of gel, initially turning cloudy then eventually solidifying. Avoid exposure to low temperature. At low temperature ice crystals separate and rise to the surface. The solution may be reconstituted by warming and agitating with no change in properties.

MATERIAL SAFETY DATA SHEET

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure standards:

No listed by H & S C (guide note EH40) or ACGIN.

Personnel protection: Respiratory protection equipment in the case of insufficient ventilation wear suitable respiratory protective equipment to avoid breathing mist.

Hand protection: When handling the products exposure should be avoided by use of PVC gloves.

Eye protection: Wear safety spectacles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid with a blue tint
Vapour pressure (air-1): as water vapour
Solubility in water: miscible in all proportions
Boiling point: 101-105°C
Freezing point: 0-4°C
Specific gravity: 1.2-1.6
VOC: < 250 grams per litre

10. STABILITY AND REACTIVITY

Hazardous Decomposition products: Not applicable.

Hazardous reactions: Solutions will react with new surfaces of aluminium, zinc and their alloys to involve hydrogen.

11. TOXICOLOGICAL INFORMATION

Eyes: A severe irritant. Splashes in the eyes will cause chemical burns and corneal damage may result. Seek medical attention.

Skin: There is little danger of cold solutions causing acute damage to the skin but dryness, irritation and reddening may occur particularly with prolong contact. Hot solutions may cause a chemical burn.

Inhalation: Mist may cause irritation of the respiratory track.

Ingestion: May result in a burning sensation in the mouth and throat, inability to swallow and irritating of the gastro intestinal track with nausea and vomiting. Seek medical attention.

12. ECOLOGICAL INFORMATION

Mobility: This product is soluble in water.

Persistence/degradation: No data.

Aquatic toxicity: No data.

MATERIAL SAFETY DATA SHEET

13. DISPOSAL CONSIDERATIONS

Dispose of using an approved contractor in accordance with the controlled waste regulations 1980.

First neutralise with careful addition of soda ash (Sodium Carbonate).

Carefully mix and then spray with water and transfer the slurry into larger containers. Decant off liquid into another container and neutralise to litmus with 6M Hydrochloric Acid. Wash to drain with plenty of water. Arrange for removal of containers by a licensed contractor, in accordance with waste disposal regulation.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport.

15. REGULATORY INFORMATION

Classification: Not classified under the classification, packing and labelling of dangerous substances.

Supply Recommended: Irritant.

Conveyance: Not classified in part IA2 of the CPL.

Recommended Phrases: Irritating to skin.
Risk of serious damage to eyes.
Keep out of reach of children.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable gloves and eye/face protection.
Voluntary label "splashes can damage eyes".

Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong: Waterproofing sealers

16. OTHER INFORMATION

Recommended Use:- To be used as a curing compound for concrete.

Data Sources:- HSE Guidance note EH40 occupational exposure limits (latest edition).
ACGIH (threshold limit values and biological exposure indices) 1985-86.
Classification, packing and labelling of dangerous substances regulations 1984.
IMO reports and studies No 35 (the evaluation of hazards of harmful substances carried by ships) 1989.
IMDG code (International Maritime Dangerous Goods Codes) 1990.
Control of substances hazardous to health regulations. (SI 1988-1657).
Control of pollution act 1974.
Hazchem list no 6 (Emergency action codes and supplementary information) 1990.
