

Fireprotection

Chemicals (Pty) Ltd

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Material Safety Data Sheet Mine Marshal 8000

Disclaimer and important safety notice

All information is provided in good faith and as accurate as possible. Fire Protection Chemicals will not accept any liability pertaining to the use of its products, as it is up to the end user to determine the correct and safe use of this product. Kindly study this document prior to using this product or, contact us for additional technical advice. Please ensure that all personal storing, handling and using this product are properly trained and informed with regards to any potential dangers and or hazards pertaining to this product. Please ensure that this document is easily obtainable in the event of an emergency

Date of issue: April 2012
Revised date: July 2018

Supplier identification and information

Manufacturer name: Fire Protection Chemicals (Pty) Ltd
Address of manufacturing: 5 Dieperink Street, Delporton, Krugersdorp, Gauteng, South Africa
Tel number: 082 850 4834
Email: admin@fireprotection.co.za

1. Product identification

Product name: Mine Marshal 8000
Chemical/technical nature: Fire retardant

2. Composition

Ingredients	Content %
Copolymer emulsion	< 45
Natural fibers	< 10
Heat resistant mineral	< 5

3. Hazards Identification

Potential Acute Health Effects:

Hazardous in case of skin contact (irritant), eye contact (irritant) and ingestion. Hazardous in case of inhalation. Slightly hazardous in case of skin contact (corrosive). Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. Gently rinse with plenty of water. Do not use an eye ointment. Seek medical attention.

Skin Contact:

In case of contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful

to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

5. Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

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6. Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Contain spill with absorbent, inert material like "Peat Sorb", sand or vermiculite. Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

Precautions:

Keep container dry. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage:

No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

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8. Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Abek1 6059 respirator (3M). Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

9. Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

10. Physical and Chemical Properties

Physical state and appearance: Thick liquid

Odour: Odourless

pH: 10 – 11.2

Swelling volume 22 – 26 (ml/2g)

Viscosity (Baroid funnel, 5% suspension) 24 – 38 (immediate)

Water absorption porous plate >580%

Ionic state: Anionic

Good green and fired pellet strength

Solid content: 60 - 70 %

M.F.T. Approx. 10Å°C

Viscosity: 500 - 3000 cps

11. Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Other Toxic Effects on Humans:

Very hazardous in case of skin contact (irritant) and ingestion.

Hazardous in case of inhalation.

Slightly hazardous in case of skin contact (corrosive).

12. Ecological Information

Biodegradability: Contains readily biodegradable ingredients

Ecotoxicity: Non toxic

Bioaccumulation: Not likely

13. Disposal consideration:

In accordance with local regulations.

14. Transport Information

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| 14.1 UN number | Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.
Not classified as hazardous under DOT or US Transport Recommendations. International Maritime Dangerous Goods (IMDG) Code: Not classified as hazardous |
| 14.2 Proper Shipping Name | Not applicable. |
| 14.3 Transport hazard class(es) | Not applicable. |
| 14.4 Packing group | Not applicable. |
| 14.5 Environmental hazards | Not classified as a Marine Pollutant. |
| 14.6 Special precautions for user | Unsuitable containers: Aluminium |
| 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

15. Regulatory Information

R38- Irritating to skin.

R41- Risk of damage to eyes.

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

Health: 2

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fire Protection be liable for any

claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fire Protection Chemicals has been advised of the possibility of such damages.

Personnel using this product must be trained and advised on the best, safest and most affective means of application.