



The Chemical Company

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **RHEOMAC[®] SF 100 (formerly MB-SF)**

Company: BASF South East Asia Pte Ltd

Address: 33 Tuas Avenue 11

Singapore 639090

Telephone number: +65 6861 6766

Facsimile: +65 6861 3186

Emergency telephone numbers: +65 6861 6766

2. HAZARDS IDENTIFICATION

Safety hazards: Not known.

Health hazards: General -The product is a fine powder and as such may constitute a dust nuisance.

Environmental hazards: None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Silicon dioxide.

Hazardous Ingredients: n.a.

CAS No: 69012-64-2

Hazard symbols: n.a.

R-phrases: n.a.

% Concentration: n.a.

4. FIRST AID MEASURES

Ingestion: Drink plenty of water and seek medical advice.

Eyes: While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin: Wash contacted area thoroughly with soap and plenty of water. Seek medical attention in event of irritation.

Inhalation: Seek medical advice.

First aid facilities: Ensure availability of clean water for eye/skin wash.

Advice to doctor: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Product is non-combustible.

Hazards from combustion products: None.

Precautions and equipment for fire fighters: n.a.

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6. ACCIDENTAL RELEASE MEASURES

Methods for clean up / collecting: n.a.

Environmental precautions: n.a.

7. HANDLING AND STORAGE

Conditions for safe storage

Location: Store in a cool dry area. Keep dry.
Temperature conditions: 5 to 35°C
Protection from weather: Store undercover and away from frost.
Storage incompatibilities: n.a.
Handling: Minimise dust generation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: Not available
Engineering controls: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal Protective Equipment This product is not classified as hazardous, so PPE is not normally essential. However, it is generally recommended that contact with any chemical be kept to a minimum. Following is a guide to suggested PPE that may be utilised for handling this product.

Respiratory protection: The use of dusk masks is strongly recommended.
Glove type (AS2161): n.a.
Eye protection: n.a.
Clothing: n.a.

Other: Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to grey very fine free flowing powder.
Colour: White to Grey.
Odour: None.
Boiling point (°C): n.a.
Melting point (°C): n.a.
Vapour pressure: n.a.
Vapour density: n.a.
Specific gravity: 350 - 500 kg/m³
Flash point (°C): n.a. (dry solid)
Flammability limits (%): UEL – n.a.
LEL – n.a.

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Solubility in water: n.a.
pH: n.a. to dry product
Partition coefficient: n.a.
Viscosity: n.a.

10. STABILITY AND REACTIVITY

Hazard of use/storage: Stable under normal storage and application temperature.
Hazardous reactions (conditions to avoid): n.a.
Materials to avoid: Hydrofluoric acid (HF)
Hazardous decomposition products: MB-SF reacts with HF forming toxic gas (SiF₄). Heating MB-SF above 500°C can result in the formation of crystalline SiO₂ modifications (Cristobalite/Tridymite), which may cause pulmonary fibrosis (silicosis). The formation rate increases with increasing temperature.

11. TOXICOLOGICAL INFORMATION

Acute

Ingestion: n.d.
Eye: n.d.
Skin: n.d.
Inhalation: n.d.

Chronic: There have been no reports in the literature of health effects in workers arising from long term exposure to this material and no comprehensive human studies have been conducted.

12. ECOLOGICAL INFORMATION

Ecology: n.d.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

State/Territory authority: Follow all local, state or government regulations concerning health and pollution for appropriate disposal procedures.
Sweep up spills with brushes or vacuum cleaners.

Dispose – Secure landfill: Yes.
Dispose – High temp incinerator: No
Precautions for clean up crew: Nitrile rubber or PVC gauntlets.

14. TRANSPORT INFORMATION

UN number: n.a.
Dangerous goods class: n.a.
Subsidiary risk: n.a.

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EPG card:	n.a.
Shipping name:	n.a.
Packing group:	n.a.
Poisons schedule:	n.a.
Hazchem code:	n.a.

15. REGULATORY INFORMATION

Classification:	Non-hazardous.
Hazard labels:	None required.
Risk phrase(s):	n.a.
Safety phrase(s):	n.a.

16. OTHER INFORMATION

Key:

n.a. = not applicable

n.as. = not assigned

n.d. = no data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.