

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **RHEOPLUS 50 SURETEC**

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

Chemical characterization: Aqueous solution of a polycarboxylate ether.

Hazardous Ingredients: None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Safety hazards: At increased temperatures relevant quantities of CO₂ can be released.
Provide appropriate exhaust ventilation.

Health hazards: May not be severely hazardous, but contact may cause some irritation.

Environmental hazards: See section 12.

4. FIRST AID MEASURES

Inhalation: Move to fresh air.

Consult a physician for severe cases.

Skin contact: Take off contaminated clothing and shoes immediately.

Wash off immediately with plenty of water.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: If conscious, drink plenty of water.

Do not induce vomiting without medical advice.

If feeling unwell, seek medical advice.

Notes to physician: To the best of our knowledge, experiences about acute systemic health effects in human beings are not available.

Treatment:

No specific antidote known.

Symptomatic treatment:

If necessary, administer activated charcoal (10-20g) and sodium sulfate (20g).

MATERIAL SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

| | |
|-----------------------------|---|
| Special hazards: | In the case of fire, the following hazardous smoke fumes may be produced: Carbon oxides. |
| Protective equipment: | In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit. |
| Extinguishing agents: | water spray, dry chemical, carbon dioxide (CO ₂) |
| Fire-fighting Instructions: | Water stream directed into fire may cause frothing with subsequent spread of fire. Cool containers / tanks with water spray. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------|--|
| Personal precautions: | Use personal protective equipment. Ensure adequate ventilation. |
| Environmental precautions: | Prevent substance from entering soil, natural bodies of water and sewer systems. |
| Method for cleaning up: | Sweep up and shovel. |

7. HANDLING AND STORAGE

| | |
|--------------------|---|
| Handling: | Wear personal protection to avoid inhalation or contact to eyes, skin, etc. Wash eyes, face and hands well after handling. |
| Storage: | Keep in a dry, cool place. At increased temperatures relevant quantities of CO ₂ can be released. Provide appropriate exhaust ventilation. Use adequate venting devices on all packages, containers and tanks and check correct operation periodically. When stored in transportation containers, ventilate well before entering. |
| Storage stability: | approx. 1 year |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|-------------------------|--|
| Eye protection: | Wear safety glasses, which comply with local standards. |
| Hand protection: | Wear gloves or suitable protective creams. |
| Body protection: | Wear suitable protective clothing. |
| Respiratory protection: | Use suitable respiratory protection where aerosols/vapours are generated. |
| Hygienic practices: | Avoid contact with skin, eyes and clothing. Wash hands before breaks and the end of the workday. When using material, do not eat, drink, or smoke. |
| Engineering controls: | Eye and hand-washing facilities (safety shower and eye washer). |

MATERIAL SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------|-----------------------------------|
| Physical state: | Turbid liquid |
| Colour: | Pale yellow to light brown |
| Odour: | Specific Odour |
| Freeze point: | Coagulation below 3 °C. |
| Boiling point/range:: | Decomposition above 110 °C. |
| Melting point: | n.a. |
| Flash point: | Not combustible |
| Vapour pressure: | n.a. (Aqueous solution) |
| Vapour density | n.a. (Aqueous solution) |
| Relative density: | 1.02-1.10g/cm ³ (20°C) |
| Water solubility | Soluble. |
| pH Value: | 5-8 |
| Viscosity: | 200 – 600 mm ² /s |

10. STABILITY AND REACTIVITY

| | |
|-----------------------------------|---|
| Stability: | Stable during normal handling. |
| Conditions to avoid: | Strong exothermic reaction with magnesium or zinc. |
| Materials to avoid: | Strong oxidizing agents. |
| Hazardous decomposition products: | The dried solid may burn or decompose by heating to evolve hazardous gasses (organics, CO _x etc.). |

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LETHAL DOSE)

LD50 oral Albino rat

| | |
|-------------------------|---------------------------------------|
| Dose: | LD50 > 2000 mg/kg |
| Additional information: | Acute Toxic class method (93/21/EWG). |
| Information applies to: | Value relates to a similar product. |

LC50 inhalation Albino rat

| | |
|-------------------------|-------|
| Dose: | n.a.. |
| Additional information: | n.a. |
| Information applies to: | |

ACUTE TOXICITY (IRRITATION, SENSITIZATION ETC.)

Eye irritation Albino rabbit

| | |
|-----------|------|
| Results: | n.a. |
| Symptoms: | n.a. |
| Method: | n.a. |

Skin irritation Albino rabbit

| | |
|-------------------------|------------------------------------|
| Results: | No skin irritation. |
| Symptoms: | n.a. |
| Method: | 92/69/ EEC, B.4 |
| Information applies to: | Value relates to a similar product |

MATERIAL SAFETY DATA SHEET

Delayed or chronic toxicological effects

| | |
|-------------------------|---|
| Additional information: | n.a. |
| Inhalation: | May irritate mucous membranes. |
| Skin contact: | Long-term or repeated contact may cause sebum removal, irritation and inflammation. |
| Eye contact: | Some irritant. May cause temporary cornea inflammation. |
| Acute toxicity: | Toxic effect may be low during normal handling. |
| Chronic effects: | No carcinogenic, teratogenic or mutagenic substances are used as raw materials. |
| Others: | Contact during normal handling may not be severely hazardous. |

12. ECOLOGICAL INFORMATION

| | |
|------------------------|---|
| Ecotoxicity: | WPC (water pollution class): 1 (TTC-Test, DEV L3) > 5 ml/l |
| Other | Avoid discharging unprocessed liquid into drains, sewers and waterways. |
| Additional information | Must pass neutralization plant prior to discharge into drains and sewers. |

13. DISPOSAL CONSIDERATIONS

Dispose in approved method for industrial waste in accordance with local legislation requirements.
May be burned in an approved incinerator. A small amount may be mixed into concrete and hardened.
(Refer to the product handling manuals for dosage.)

14. TRANSPORT INFORMATION

Road transport ADR/RID

| | |
|---------------|-------|
| Class: | n.as. |
| Warning sign: | n.as. |
| Hazard No: | n.as. |
| UN No: | n.as. |

Martime transport IMDG

| | |
|--------|-------|
| UN No: | n.as. |
| PG: | n.as. |
| Class: | n.as. |

Other information: Handle the containers carefully not to drop, tumble or get shocked. Any transportation practice must be in compliance with local laws and regulations.

MATERIAL SAFETY DATA SHEET

15. REGULATORY INFORMATION

| | |
|---|--|
| Hazard labels | n.as. |
| Risk-phrases | n.as. |
| Safety-phrases | S12 Do not keep the container sealed.. |
| National regulatory information | n.as. |
| Other regulations, restrictions and prohibitions | n.a. |

16. OTHER INFORMATION

Registration:
Initial preparation by EB3 R&D - JK

Product should be stored on site in leak proof and rupture proof containers.

Key:
n.a. = not applicable
n.as. = not assigned
n.d. = no data

Reason for Issue: New format based on National Code of Practice for the preparation of MSDS – 2nd edition [NOHSC:2011(2003)]. Change of company name.

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.