

# MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003) and HSNO CoP 8-1 (September 2006)

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** RHEOPEL PLUS

**Other Name:** None allocated

**Recommended Use:** Water-based admixture for reducing efflorescence in concrete.

**Company:** BASF Construction Chemicals Australia Pty. Ltd. ABN 46 000 450 288  
BASF New Zealand Ltd.

**Address:** 11 Stanton Road, Seven Hills, NSW, 2147 Australia  
45 William Pickering Drive, Albany, Auckland, New Zealand

**Telephone Number:** +61 2 8811 9624 4200 +64 9 414 7233

**Facsimile:** +61 2 8811 9624 3299 +64 9 414 7244

**Emergency Telephone Number:** 0417 658 263

## 2. HAZARDS IDENTIFICATION

**Hazard Classification:** NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.  
Non Dangerous Goods for transport according to the ADG code.  
Non Hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and NOHSC

**Hazard Designation:** None

**HSNO Classification:** None

**Risk Phrase(s):** None

**Safety Phrase(s):** None

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Octyltriethoxysilane	2943-75-1	30 – 60%
Ethanol	64-17-5	< 1.0%
Non hazardous ingredients		to 100%

## 4. FIRST AID MEASURES

**Inhalation:** Not a normal route of injury. If inhalation occurs, remove victim from exposure. If difficulty breathing, administer oxygen. If breathing stopped administer artificial respiration. Seek medical attention

**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:** Remove contaminated clothing. Wash contacted areas thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before re-use.

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Ingestion: Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water Spray or Fog, Foam, Carbon dioxide (CO<sub>2</sub>) and Dry Chemical.

Hazards from combustion products: Oxides of carbon and nitrogen from combustion of dried residues.

Precautions and equipment for fire fighters: Containers can build up pressure if exposed to heat from a fire. Cool closed containers exposed to fire with water spray.

Hazchem code: None allocated

## 6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and clean up: Caution slippery when spilt. Stop leak if possible without risk. Spills should be contained by absorbing with dry inert filler (vermiculite, sand or soil), which can then be shovelled into appropriately labelled drums for disposal. Carefully dilute with water (fine spray or fog). Wash down area with excess water into a containment area or contain with inert filler for disposal. Spills in a contained area such as a bund can be removed by a commercial bulk liquid waste disposal organisation. Refer to the local Waste Management Authority and comply with local regulations.

Environmental precautions: Do not discharge into sewers or waterways.

## 7. HANDLING AND STORAGE

Precautions for safe handling: Wear PPE as per Section 8. Keep out of reach of children. Product evolves flammable ethyl alcohol (ethanol) on exposure to water or humid air. Provide ventilation during use to control ethanol within exposure limits.

Conditions for safe storage: No special measures required. Keep container tightly closed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Normal ventilation is generally satisfactory. However, if ventilation is considered inadequate, the use of forced air ventilation or an exhaust system is recommended. In confined spaces respiratory equipment should be used.

Personal Protective Equipment (PPE): It is generally recommended that contact with any chemical be kept to a minimum. Following is a guide to PPE that may be utilised for handling this product.

Respiratory protection: Avoid use in confined spaces. If spraying or if ventilation is insufficient, wear approved respiratory equipment for ethanol.

Glove type (AS2161): Impervious gloves e.g. PVC or nitrile rubber gauntlets.

Eye protection: Chemical worker's goggles, safety glasses with side shields or face shield.

Clothing: General protective clothing such as overalls or long pants and a long sleeve shirt or a chemical apron to protect skin from contact with the material. Remove contaminated clothing as soon as possible. Launder thoroughly before reusing. For large spills or ponded areas impervious footwear is preferred.

Other: Use barrier creams to protect skin from contact with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Milky liquid.
<u>Odour:</u>	Mild alcoholic.
<u>pH:</u>	7 – 8 (23 °C)
<u>Specific gravity:</u>	0.97 - 1.01 (23 °C)
<u>Boiling point:</u>	98 °C
<u>Freezing point:</u>	0 °C
<u>Flash point:</u>	100 °C
<u>Evaporation rate:</u>	Slower than Butyl Acetate.
<u>Vapour density:</u>	Heavier than air.
<u>Solubility in water:</u>	Soluble.
<u>VOC Concentration as applied (less water and exempt solvents):</u>	< 350 g/l

## 10. STABILITY AND REACTIVITY

<u>Chemical stability:</u>	Stable under normal storage conditions. Not sensitive to mechanical impact. Avoid prolonged expose to high temperatures.
<u>Incompatible materials:</u>	Oxidizing agents.
<u>Hazardous decomposition products:</u>	Thermal decomposition can lead to release of irritating gases and vapours. Oxides of carbon and nitrogen. Formaldehyde. Silicon dioxide.
<u>Hazardous reactions:</u>	Hazardous polymerisation will not occur under normal storage conditions.

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

<u>Product:</u>	LD50 (Oral) No data available
<u>Ingredients:</u>	Ethanol: LD50 (Oral) 7060 mg/kg rat

### No other toxicological data or exposure limits available.

<u>Inhalation:</u>	Can cause slight irritation. Effects of excessive exposures may include dizziness and headache.
<u>Eyes:</u>	Can cause slight irritation.
<u>Skin contact:</u>	May cause moderate irritation. Repeated or prolonged skin contact may defat the skin and produce dermatitis. Skin contact should always be avoided.
<u>Skin absorption:</u>	Does not absorb through skin.
<u>Ingestion:</u>	Can cause slight irritation.
<u>Chronic:</u>	On exposure to water or humid air, ethanol is formed. Chronic overexposure to ethanol by inhalation may injure the liver. Chronic skin absorption of ethanol may be harmful. No known components of this product are listed as known or suspected carcinogens.

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## 12. ECOLOGICAL INFORMATION

Ecology: Do not discharge into sewers or waterways.

Marine pollutant: Not listed

## 13. DISPOSAL CONSIDERATIONS

Disposal method and containers: Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

Special precautions (landfill/incineration): None known.

## 14. TRANSPORT INFORMATION

UN Number: None allocated

UN Proper Shipping Name: Not regulated

Dangerous Goods Class: None allocated

Subsidiary Risk: None allocated

EPG Card: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

## 15. REGULATORY INFORMATION

NICNAS / AICS: All components are listed

Poisons Schedule: Not Scheduled

HSNO Classifications: Not required. Non hazardous.

ERMA Group Standard: Not required. Non hazardous.

ERMA / NZIoC: All components are listed

Tracking: Not required

Approved Handler: Not required

## 16. OTHER INFORMATION

Reason for issue: Update information and inclusion of New Zealand ERMA/HSNO requirements.

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.