

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: RHEOPEL PLUS

Other name: None allocated

Product code:

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

Company: BASF Construction Chemicals Australia Pty Ltd. BASF Construction Chemicals New Zealand Ltd.

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2. HAZARDS IDENTIFICATION

Hazard classification: Hazardous according to criteria of NOHSC.

Risk phrase(s): None

Safety phrase(s): None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Aqueous silane emulsion.

Chemical Name	CAS Number	Proportion
Ethanol	64-17-5	0.1 - 1.0%
Octyltriethoxysilane	2943-75-1	30 - 60%
Non hazardous ingredients		To 100%

All ingredients listed on AICS.

4. FIRST AID MEASURES

Inhalation: Use in well ventilated areas. If inhalation occurs, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has 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. Remove excess from skin mechanically. Wash contacted areas thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before re-use.

Ingestion: Not a normal route of injury. 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: Use CO2, Dry Chemical, Water Fog or Water Spray.

Hazards from combustion products: None known.

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: Spills should be dyked and contained by absorbing with dry inert filler (eg vermiculite, sand or soil), which can then be shovelled into appropriately labelled drums. Excess can be diluted with water and absorbed with dry inert filler also. Any minor remaining material can be allowed to dry to a cured inert film. Disposal should be effected by an approved waste disposal organisation according to 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: No special clothing required. Preferably wear overalls or similar industrial clothing to cover naked skin. If clothing is contaminated remove immediately.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Milky liquid.	<u>Solubility in water:</u>	Soluble.
<u>Odour:</u>	Mild alcoholic.	<u>Specific gravity:</u>	ca 0.99
<u>pH:</u>	7 - 8	<u>Flash point (°C):</u>	Not available
<u>Boiling point (°C):</u>	98.	<u>Evaporation rate:</u>	Slower than Butyl Acetate.
<u>Freezing point (°C):</u>	0.	<u>VOC Concentration as applied (less water and exempt solvents):</u>	<350 g/l

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal storage conditions. Not sensitive to mechanical impact. Avoid prolonged exposure to high temperatures.

Incompatible materials: Oxidizing agents.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapours.

Oxides of carbon and nitrogen. Formaldehyde. Silicon dioxide.

Hazardous reactions:

Hazardous polymerisation will not occur under normal storage conditions.

11. TOXICOLOGICAL INFORMATIONEthanol: LD50 (Oral) 7060 mg/kg ratNo other toxicological data or exposure limits available.Inhalation: Can cause slight irritation. Effects of excessive exposures may include dizziness and headache.Eyes: Can cause slight irritation.Skin contact: May cause moderate irritation. Repeated or prolonged skin contact may defat the skin and produce dermatitis. Skin contact should always be avoided.Skin absorption: No effects known.Ingestion: Can cause slight irritation.Chronic: 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.**12. ECOLOGICAL INFORMATION**Ecology: No data available. Do not discharge into sewers or waterways.**13. DISPOSAL CONSIDERATIONS**Disposal method and containers: Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.Special precautions for landfill or incineration: Normally suitable for disposal at approved land waste site.**14. TRANSPORT INFORMATION**UN number: None allocated. EPG card: None allocated.UN proper shipping name: Not regulated. Packing group: None allocated.Dangerous goods class: None allocated. Hazchem code: None allocated.Subsidiary risk: None allocated. Poisons schedule: None allocated.**15. REGULATORY INFORMATION**Risk phrase(s): None.Safety phrase(s): None.**16. OTHER INFORMATION**

Reason for issue: New product in range.

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.