



CALMARC CHEMICALS

MANUFACTURING INDUSTRIAL CHEMISTS

16 GOONGARRIE ST, BAYSWATER W.A 6053.
TELEPHONE : Bus. (08) 93782022 Mobile 0418 956 860 A/H (08) 9381 5052.
Facsimile (08) 9377 2575 A.C.N 009 026 386. ABN 18 340 289 669

THIS PRODUCT IS NOT A HAZARDOUS SUBSTANCE AS DEFINED BY NOHSC

SECTION 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	FLOWBOND
Manufacture Code	FLBD
Emergency Telephone No :	(08) 9378 2022 0418 956 860 0408 940 669 (08) 9381 5052
Fax Number :	+61 8 9377 2575
Creation Date	16 June, 2007
MSDS Responsibility	Calmarc Chemicals Technical Sales (08) 9378 2022 0418 956 860
Other Information	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 of 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 our terms and conditions and technical information pamphlets are available upon request. <u>DISCLAIMER</u> This information is based on the present level of knowledge about safety requirements not specific properties. The listed data is therefore subject to change and revision without notice and cannot be guaranteed. No warranty, expressed or implied is made as to accuracy, reliability or completeness of the detail in this document.

SECTION 2 – COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENTS	CAS No	CONCENTRATION
Synthetic Polymers		30-60%
Water		30-60%
Other compounds and/or impurities		to make 100%

Shipping Name	FLOWBOND
Other Names	Synthetic copolymer



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UN Number	None
Dangerous Goods Class	None
Subsidiary Risk	None
Hazchem Code	None
Risk Phrases	None
Safety Phrases	None
Poison Schedule	None
Use	Cement additive/ waterproof agent.
Directions	Refer to pds for specific mix quantities.

SECTION 3 – HAZARDS INFORMATION/EMERGENCY OVERVIEW

Colour	Milky white
Physical Description	Low Viscosity Liquid
Odour	Slightly pungent at close proximity
Major Health Hazards	No specific health hazards available. Ingredients are not listed as carcinogenic by NOHSC (1995)
Physical Data	Product is waterbased
Health Effects	
Acute - Swallowed	Effects unknown. Small quantities (a few mls) is unlikely to cause more than temporary discomfort.
Acute - Eye	Strong irritant. May cause damage to the eyes on prolonged exposure due to small residual of sodium hydroxide present.
Acute - Skin	May cause irritation. Repeated exposure may cause dermatitis to susceptible individuals due to degreasing effect of the surfactants present.
Acute - Inhalation	Possible nausea due to small amounts of styrene butadiene dimer.
Chronic	None known at this time.
Special Health Effects	
Environmental	Do not allow products to enter drinking water, rivers and streams as it may harm vegetation and wildlife.

SECTION 4 – FIRST AID MEASURES

Swallowed	For a conscious patient, rinse the mouth with water and give plenty of water to drink. Never give a drink to an unconscious person
Eye	Flush eyes with copious amounts of water for 15 minutes with eyes open.
Skin	Wash off with soap and water. Remove any contaminated clothing.
Inhaled	Remove to fresh air.
Advice to Doctor	Treat as for polymerised acrylic resins dispersed in water in the form of an emulsion or treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES



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Fire and Explosion	Wear self contained breathing apparatus to avoid inhalation toxic smoke or fumes. .
Ventilation	Local exhaust and ventilation is recommended if used internally. Externally, normal air movement is usually sufficient.
Earthing	Earth the product container if there is a potential for static electricity build up.
Auto Ignition Temperature	Only ignites in the presence of a very strong ignition source and only after the water is removed.
Source of Ignition	Keep away from open flame, sparks, high sources of heat transmission and static electricity discharge.
Flash Point	Not applicable-aqueous product.
Extinguishing Media	Use carbon dioxide, dry chemical or B.C.F. fire extinguishers
Special Fire Fighting Procedures	None
Decomposition Products	Carbon Monoxide, Carbon Dioxide, Styrene gases and vapours. Hazardous polymerisation will not occur.
Upper Exposure Limit	N/A
Lower Exposure Limit	N/A
Reactivity	Product may coagulate if in contact with flocculants, e.g. - organic solvents and/or salt solutions.
Protection of Firefighters	Wear safety boots, non flammable overalls, gloves, safety hat (with face shield) or firefighter helmet (preferred), goggles and self contained breathing apparatus. All skin areas should be covered. Block all drains and water courses to inhibit any spillage into them.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spills and Disposal	Spills should be contained and absorbed with sand, vermiculite, attapulgate or inert material. Place the contaminated material in a plastic or metal container and dispose of it at an industrial waste site. Do not allow the product to enter dams or waterways. Small amounts can cause high turbidity.
Cleaning Protection	Open up the area where spill or leak has occurred to ventilate direct vapours away. Attach earth leak cables to any containers in the spill area. Have absorbents such as vermiculate, attapulgate, cardboard or sand on hand to control flow of the spilled mobile product. Use wet vacuum cleaner or mop to collect any small spills.

SECTION 7 – HANDLING AND STORAGE



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Protection against explosions and fires	Keep containers on site away from sources of heat, sparks and earth if necessary for static electricity. Use secure locked storage in possible and have forced or natural ventilation over worksite or storage areas.
Packages	The product is supplied in high density polypropylene bottles, jerry cans or cubes. Packaging group type II and III
Storage	After decanting from containers, tightly reseal containers and store immediately. Store away from food stuffs. Store in a cool, dry, well ventilated area under cover between 5°C and 30°C. Store containers away from any heat sources, sparks. Do not store with oxidising agents or acids.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures	Apply in a well ventilated area either externally or internally.
Airborne Exposure Limits	No Airborne exposure limits have been established. A blanket limit of 10mg/m ³ for dusts or mists is used in these cases.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face Protection	Wear safety glasses, goggles or preferably a face shield. In enclosed non ventilated areas, an air linr to full head cover helmet with mask may be necessary. Breathing mask to be suitable for organic vapours.
Skin/Body Protection	Wear vinyl, latex or PVC gloves for 8 hour day. Short term protection (1 hour), natural rubber is suitable. Wear full coverall clothing protection with safety boots.
Hygiene Measure	Wash hands before meal breaks and at the end of a work period. Any contaminated clothing should be removed. Avoid inhaling any fumes on a long term basis.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Substance	Formulation of chemicals
Physical Form	Low viscosity liquid
Colour	Milky white.
Odour	Slightly pungent at close proximity
Ph	8 - 10
Boiling Point	100°C at 760mm Hg
Melting Point	Not Applicable
Flash Point	Not Applicable
Freezing Point	0°C
Autoignition	Only ignites in the presence of a very strong ignition source and only after the water is removed.
Water Solubility	Miscible in liquid form. Insoluble as a dried film.
Specific Gravity	1.02 g/ml
Corrosivity	Not Corrosive

SECTION 10 – STABILITY AND REACTIVITY

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Stability	Stable as supplied at normal (average) atmospheric temperatures
Reactivity	Product may coagulate if in contact with flocculants, for example, organic solvents and/or solvent solutions.
Decomposition Products	Carbon monoxide, carbon dioxide, nitrogen gases and vapours. Hazardous polymerisation will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

None Known.

SECTION 12 – ECOLOGICAL INFORMATION

None Known.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal	Allow absorbents to dry out in the open atmosphere. Contaminated product should be reprocessed by an approved organisation. Place any dried absorbent in plastic bags, seal and dispose at an approved site.
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SECTION 14 – TRANSPORT INFORMATION

Shipping Name	FLOWBOND
Dangerous Goods Code	None
Subsidiary Risk	None
UN Number	None
Packaging Group	II or III
I.E.R.G No	None
HAZCHEM	None

SECTION 15 – REGULATORY INFORMATION

None Known

SECTION 16 – OTHER INFORMATION

MSDS REVISION 18 January, 2029

END OF MSDS FOR FLOWBOND