

MATERIAL SAFETY DATA SHEET.

PRODUCT: 'MAXIM-AIR[®]'

Air Entraining Admixture powder (concentrate) for concrete.

Other Names: Powder detergent, bio-degradable surface active agent based on sodium alkyl sulphate.

PRODUCT IDENTIFICATION

Manufacturer's Code: E 112	U.N. Number:	Not applicable.
	Dangerous Good Class:	Not applicable.
	Subsidiary Risk:	Not applicable.
	Hazchem Code:	Not applicable.
	EPG No:	Not applicable.
	Packaging Group:	Not applicable.
	Poisons Schedule:	Not applicable.

USE:

To entrain microscopic stable air voids in concrete using exceptionally low dose rates (typically 0.003 per cent of cementitious material weight).

Other uses: As toothpaste, detergent, shampoo and toiletry ingredients. Foaming emulsifying and dispersing agent.

PHYSICAL DESCRIPTION/PROPERTIES:

Appearance:	White to cream coloured free flowing powders.	
Boiling Point/Melting Point (°C):	Not applicable.	
Pack Density (g/cm ³ at 20°C):	0.35 typically	
Flash Point (°C):	Not applicable	
Flammability Limits (%):	Not applicable	
Auto-ignition temperature: (°C):	Not available	
Solubility in water (g/l at 25°C):	Approx. 300	
pH, 1% solution:	10	
Ingredients:	CAS No.	Proportion (%m/m)
Alkyl Sulphate, Sodium Salt	[68585-47-7]	90%
Sodium sulphate (Glaubers Salt)	[7757082-6]	6-7%
Minor Ingredients, water		to 100%

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HEALTH HAZARD INFORMATION

Health Effects:	
Acute:	
Swallowed:	This material is irritant by virtue of its being moderately alkaline as well as having a detergent action. Low toxicity; acute oral LD50s's in rats of 1200 to 2400 mg/kg. have been reported for equivalent products on an active matter basis.
Eyes:	Dust is irritant to eyes.
Skin:	Dust and powder are irritant on prolonged contact.
Inhaled:	Dust is very irritating to nose, throat and lungs.
Chronic:	Repeated, prolonged contact may produce dermatitis
First Aid	
Swallowed:	Immediately give plenty of water or milk and seek medical attention. Do not induce vomiting.
Eyes:	Immediately hold eyes open and flush thoroughly with water for at least 15 minutes. Seek immediate medical assistance: If not immediately available, continue flushing.
Skin:	Wash contact areas with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
Inhaled:	Remove from further exposure. Seek medical advice if effects persists.
Advise to Doctor:	Treat symptomatically.

PRECAUTIONS FOR USE:

Exposure Limits:	None assigned by Worksafe Australia but a dust Exposure Standard of 1 mg/m ³ (8 hr. - TWA) is recommended to avoid irritation.
Engineering Controls:	Use is a well ventilated area and minimise dust generation. Local exhaust ventilation at dust source is recommended.
Personal Protection:	Wear chemical-type goggles. To avoid skin contact wear protective overalls and PVC or rubber gloves. Observe good personal hygiene. Use dust respirator in dusty environments.
Flammability:	Not Flammable. Does not support combustion.

SAFE HANDLING INFORMATION

Storage and Transport:	<p>Not classified at Dangerous Goods for storage and transport.</p> <p>Store under cover in a dry place away from foodstuffs and empty foodstuff receptacles, oxidising agents (such as chlorates, nitrates, peroxides).</p> <p>Bags should be protected from damage and mild steel drums should not be used for prolonged storage of solutions of these products.</p> <p>Stocks should be used in rotation.</p> <p>Close containers securely after use to prevent moisture absorption and consequent caking.</p>
Spills and Disposal:	<p>Wear protective clothing and a dust mask. Collect spilt powder directly into plastic or steel containers. Absorb solutions on sand or earth and collect similarly. Wash residual spillage to drain with plenty of water, taking care to avoid excessive foam formation. Dispose of waste at a licenced site.</p>
Other Precautions:	<p>Avoid dust formation. Wear an approved respirator when handling large amounts of this product without a dust extraction plant. The precautionary measures normally applied when handling chemicals are to be observed.</p>
Fire/Explosion Hazard:	<p>Like sodium lauryl sulphate 'Maxim-Air[®]' is not flammable but in a large fire it may produce toxic fumes containing sulphur dioxide and carbon monoxide. Self contained breathing apparatus should be worn in fighting fire where these materials are involved.</p>
Other information:	<p>The product is a biodegradable surfactant in accordance with Australian Standard AS 1792-1976.</p>

'MAXIM-AIR[®]' is a registered Trade Name of Ability Building Chemicals Co.

CONTACT POINTS:

EMERGENCY PHONE NUMBER: (03) 9457 6488 AFTER HOURS: (03) 9547 3543.

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DATE: 5TH MAY, 1997.