

Material Safety Data Sheet

Non hazardous according to criteria of NOHSC Australia.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: AQUA-TECH Microbes & Soils

Synonyms:

Use: Blend of anionic cross linked polymers and lineal polymers, fertilisers for use in the home garden.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL	ENTITY CAS NO.	PROPORTION
Polyacrylamide	9082-06-8	<10%
Fertiliser	N/A	>40%
Inerts	N/A	>50%
		<hr/> 100%

3. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

Irritating to eyes.

This product swells in water and may produce slippery conditions. This product contains fine powders and can create dusty conditions.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code(ADG Code) for transport by rail and road.

4. FIRST AID MEASURES

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice.

Skin contact: If skin or hair contact occurs, immediately remove contaminated clothing and wash skin thoroughly. If swelling, redness, blistering or irritation occurs seek medical assistance

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Eye contact: Rinse immediately with plenty of water, continuing for 15 minutes, including under the eyelids. In all cases of eye contamination it is a sensible precaution to seek medical assistance.

Ingestion: Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.

5. FIRE-FIGHTING MEASURES

Specific hazards: Aqueous solutions or powders that become wet render surfaces extremely slippery. Dust may be irritating to eyes and respiratory system.

Fire Hazards: Combustible solid. In common with many organic chemicals, may form flammable dust clouds in air. On burning will emit toxic fumes. Thermal decomposition may produce hydrogen cyanide, nitrogen oxides and carbon oxides as similar to most organic materials.

Fire fighting further advice: No special protective equipment required.

Suitable extinguishing media: Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

Do not flush with water. Clean up promptly by scoop or vacuum. After cleaning flush away traces with water.

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labeled containers or drums for disposal.

LARGE SPILLS

Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labeled containers or drums for disposal. Wash area down with detergent and excess water.

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of dust.

Storage: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However for: *Polyacrylamide dust (<0.01 mm particle size)

TWA		STEL		CARCINOGEN	NOTICES
ppm	mg/m ³	ppm	mg/m ³	CATEGORY	
-	0.05*	-	-	-	-

The particle size range stated in this Safety Data Sheet is of a higher value.

NOTE: In NSW Coal Mines there exists an exposure standard for 2.5mg/m³ coal dust respirable (and 0.12mg/m³ respirable silica), and mine operators usually measure all respirable exposures to this standard.

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Exposure Standards: None allocated to this product. However the recommended exposure limit for dust of a general nature is 10mg/m³ of respirable dust (NOHSC:3008(1991) 14.28)

NOTE: These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering Controls: Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating and inhaling dusts. Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use.

Process Modification: Not Available

Segregation of Process from Personal: Not Available

Vessel Containment Controls: Not Available

Enclosure of Sources of Substances: Not Available

Mechanical Handling: As per Safe Work Procedure

Capture of Substances at Source and Disposal with Local Exhaust Ventilation : Not Available

Dilution Ventilation:
Local Exhaust - if dusting occurs
Natural Ventilation - adequate in absence of dust

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES (Short).

Wear overalls, safety glasses and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: White granular solid with no odour.

Solubility: Insoluble in water.

Density	:	0.6-0.8	Melting Point (C)	:	N Av
Rel Vapour Density (air=1)	:	N App	Boiling Point (C)	:	N App
Vapour Pressure (20 C)	:	N App	Decomp. Point (C)	:	N Av
Flash Point (C)	:	N App	Sublimation Point	:	N App
Flammability Limits (%)	:	N Av	Particle size	:	~0.3mm – 1mm
Autoignition Temp (C)	:	N Av	Viscosity	:	N App
% Volatile by volume	:	N Av	Evaporation Rate	:	N App
Solubility in water(17 C)	:	98% insoluble in water			

(Typical values only - consult specification sheet)

N Av = Not available

N App = Not applicable

10. STABILITY AND REACTIVITY

Stability: Product is stable, no hazardous polymerization will occur.

Materials to avoid: Oxidising agents may cause exothermic reactions.

Hazardous decomposition products: Thermal decomposition may produce hydrogen cyanide, nitrogen oxides and carbon oxides as similar to most organic materials.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

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Acute Effects

Inhalation: Material may be irritant to mucous membranes and respiratory tract

Skin contact: Exposure to molten material may cause skin burns. Contact with skin may result in irritations.

Eye contact: Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Ingestion: Swallowing may result in nausea, vomiting and abdominal pain.

Long Term Effects: Chronic inhalation exposure to rats for a lifetime (two years) using a super absorbent polymer that had been micronized to a respirable particle size (less than 10 microns) produced non-specific inflammation and chronic lung injury at 0.2mg/m³ and 0.8mg/m³. At 0.8mg/m³, tumors were seen in some animals. In the absence of chronic inflammation, tumors are not expected. There were no adverse effects of any kind at 0.05mg/m³.

12. ECOLOGICAL INFORMATION

Do not contaminate waterways.

Toxicity and Eco-toxicity: Ecological toxicity is not known or expected under normal use Aquatic toxicity is unlikely due to low solubility

Bioaccumulation: The product is not expected to bio-accumulate.

Persistence / Degradability: Not readily biodegradable— <10% after 28 days

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority. Normally suitable for disposal at approved land waste site.

14. TRANSPORT INFORMATION

Road and Rail Transport: Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Marine Transport: Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport: Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

Symbols: Xi – irritant

R-Phase(s): R36 – irritating to eyes

S-Phase(s): S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36 – Wear suitable protective clothing.

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16. OTHER INFORMATION

This Material Safety Data Sheet has been prepared by Triox Pty Ltd.

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Triox Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.