



Material Safety Data Sheet

Guardex Shimmer Tabs

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Company Details

Company:	Hydrotech Australia Pty Ltd
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Product Identification

Product Name:	Guardex Shimmer Tabs	UN Code:	None
Product Code(s):	H4875, H4876, H4877	HazChem Code:	None
Other Names:	None	Dangerous Goods Class:	None
Use(s):	Water clarifier and flocculant for swimming pools	Poisons Schedule:	None

Not classified as hazardous according to the criteria of Worksafe Australia

Ref: National Occupational Health and Safety Commission, *Approved Criteria for Classifying Hazardous Substances* [NOHSC:1008(1999)]

PHYSICAL DESCRIPTION AND PROPERTIES

Boiling Point:	Decomposes 770°C (Alum)	Solubility:	Totally soluble in water
Melting Point:	87°C (Alum)	Specific Gravity:	0.84
Flammability Limits:	Not flammable	pH:	3.5 - 3.7 (1% aqueous solution)
Vapour Pressure:	N Av	Appearance:	White crystalline tablet, odourless
Reactivity:	Stable under normal conditions.		
	Reacts with water to produce sulfuric acid.		
	Reacts with easily oxidisable material, including many pool chemicals in their concentrated form.		
	Reacts with strong bases, such as sodium hydroxide (caustic soda) and potassium hydroxide (caustic potash).		
	Reacts with inorganic reducing agents, ammonia, urea and related nitrogen compounds.		
	Boric acid component is incompatible with elemental zirconium.		

(N Av = Not Available; N App = Not Applicable)

COMPOSITION

Chemical Entity	Proportion by Weight	CAS Registry Number
Aluminium Sulfate (Alum)	97 %	10043-01-3
Boric Acid (Boracic Acid)	2 %	10043-35-3
Inert Materials (including Water)	Balance	7732-18-5

Health Hazard Information**HEALTH EFFECTS****1. Effects from Acute Exposure**

Swallowed:	Not considered a significant health risk, although excessive consumption may cause nausea, vomiting and abdominal pain.
Eyes:	Eye irritation may occur.
Skin:	Skin irritation may occur. Prolonged contact has been reported to cause numbing of the fingers.
Inhalation:	Inhalation of dust may irritate the nose, throat and respiratory system.

2. Effects from Chronic Exposure

Repeated ingestion of aluminium sulfate may lower body phosphate levels, culminating in structural weakening of the skeleton. Generally, however, ingested material is not easily absorbed, forming insoluble phosphates which are readily excreted from the body. When fed to test animals at very high doses, boric acid has shown reproductive and developmental toxicity. However, if used according to label directions, the boric acid in this product does not constitute a practical risk to humans.

FIRST AID

Swallowed:	Do NOT induce vomiting. Give a glass of water and contact a Doctor or Poisons Information Centre (Phone: 13 1126). NEVER attempt to give anything by mouth to an unconscious person.
Eyes:	Irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek medical assistance if irritation persists.
Skin:	Wash with soap and water. Seek medical assistance if irritation persists.
Inhalation:	Move victim into fresh air and obtain medical assistance. If breathing has stopped, clear airway and give artificial respiration, preferable mouth-to-mouth. If breathing is difficult, give oxygen.
Advice to Doctor:	Treat symptomatically. No special advice.

Precautions for Use**EXPOSURE STANDARDS**

No permissible exposure limits have been established for this product by the National Occupational Health and Safety Commission (Worksafe Australia). However, the following advisory levels have been established for the constituents of this product:

Main Constituent	TWA
Soluble Salts of Aluminium	2 mg/m ³

Data as published by the National Occupational Health and Safety Commission (Worksafe Australia). TWA is the Time-Weighted Average airborne concentration over an 8-hour working day, for a 5-day working week over an entire working life. These values are issued as guidelines for good practice. All atmospheric contamination should be kept to as low a level as is practically possible. These levels should **not** be used as strict guidelines between safe and dangerous conditions.

The LD50 (rat) for aluminium sulfate is 1930 ppm.

ENGINEERING CONTROLS

Use with adequate ventilation to keep airborne concentrations below the levels indicated above.

PERSONAL PROTECTION

Avoid skin and eye contact. Wear overalls, chemical goggles and impervious gloves. Avoid generating and inhaling dusts. If dust exists, wear approved dust mask. Always wash hands before smoking, eating, drinking or using the toilet.

FLAMMABILITY

Not combustible.

Safe Handling Information

STORAGE AND HANDLING

Not defined as Dangerous Goods in the *Australian Code for the Transport of Dangerous Goods by Road or Rail*. Protect from moisture and extremes of temperature. Keep containers sealed whenever possible.

SPILLS AND DISPOSAL

Sweep up, avoiding inhalation of dust if present. Collect dry and seal in drums for disposal. Wash area down with water. For disposal, refer to the State Land Waste Management Authority. Disposal by landfill at approved land waste site is acceptable.

FIRE AND/OR EXPLOSION HAZARD

Although not combustible, hazardous combustion products are generated during the thermal decomposition of this product (see list below).

Extinguishing Medium:	Carbon dioxide, foam and dry powder-type extinguishers are all suitable unless other materials in contact preclude their use. Do not use water as the extinguishing medium.
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Special Fire Fighting Instructions:	Wear appropriate protective clothing and self-contained breathing apparatus when handling chemical fires. Thoroughly decontaminate fire fighting equipment, including all apparel, immediately after the incident.
Hazardous Combustion Products:	Decomposes upon heating, emitting toxic fumes of sulfuric acid, sulfur trioxide and other oxides of sulfur.

Contact Information

Emergency Response Team Coordinator, Patrick Logistics - 1800 024 973 (24-hour service)

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