

GENEREX (AUST.) PTY LTD

MATERIAL SAFETY DATA SHEET

I IDENTIFICATION

Product Name: Generex Acidifier
Other Names: None
Product Code : None
Hazchem Code: None allocated
UN No: None allocated
Dangerous Goods Class: None allocated
Packaging Group: None allocated
Poison Schedule: S5
Use: A spray additive which enhances penetration of herbicides, and reduces chemical hydrolysis. Especially useful in those areas with high pH water.

Physical appearance & Properties:

Appearance & Odour: Dark brown liquid with vinegar-like odour
Melting/softening point: <0°C
Boiling point: >100°C
Vapour pressure: 2.0kPa @ 20°C (propionic acid)
Volatile materials: 10%
Flashpoint: >95°C (T.C.C.)
Specific gravity: 1.0302
Solubility in water: Miscible with water.
Form: Liquid

Ingredients:

<u>Chemical Entity</u>	<u>CAS No.</u>	<u>Proportion %</u>
Propionic Acid	79-09-4	35% w/v
Soyal Phospholipids	8002-43-5	35% w/v
Alkyl phenol - hydroxypolyoxyethylene	26027-38-3	10-20% w/v

II HEALTH HAZARD DATA

Hazardous according to criteria of Worksafe Australia.

Acute Effects:

Swallowed: The concentrate is of low to moderate toxicity. Prolonged contact of the concentrate with the mucous membranes may cause irritation or burns.

Eye: The concentrate will cause severe irritation. Prolonged contact of the eye with the concentrate may cause permanent damage.

Skin: The concentrate will cause irritation. Propionic acid can be absorbed via the skin.
Inhalation: Inhalation of vapours will cause irritation to nose and throat.

Chronic Effects: No chronic effects known.

Other Health Hazard Information:

Acute Over Exposure: Liquid can cause skin and eye burns. The vapours are irritating to the eyes, nose and throat.

First Aid:

Swallowed: If poisoning occurs, contact a Doctor or Poison's Information Centre. Drink several glasses of water. Do not induce vomiting.

Eye: Flush copiously for 15 minutes with eyelids held open. Seek medical advice.

Skin: Remove contaminated clothing and laundry before re-use. Wash affected areas thoroughly with soap and water.

Inhalation: Remove to fresh air.

Advice to doctor: Treat symptomatically. If vomiting has occurred, consider the possibility that vomitus has been aspirated into the lungs, which may result in chemical pneumonitis.

Toxicity data:

Propionic Acid: Moderately toxic by ingestion, skin contact and intravenous routes. A corrosive irritant to eye, skin and mucous membranes. Oral (rat) LD50 3500mg/kg Skin (rabbit) LD50 500mg/kg

Alkyl phenol – hydroxypoloxethylene: The toxicity of this material is not accurately known. Similar materials have an LD50 (oral, rat) 2000-2500mg/Kg

III PRECAUTIONS FOR USE

Exposure Standards: Propionic Acid: TLV, 10ppm; 30mg/m³

Engineering Controls: Natural ventilation only.

Personal Protection: Avoid contact with eyes and skin. When preparing product for use, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and effective eye protection. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly. After each day's use, wash contaminated clothing and safety equipment.

Flammability: Non flammable.

Environment: Harmful to fish and aquatic life. Do not contaminate ponds, waterways or ditches with chemical or used containers. Wash out containers and dispose of in a responsible manner. The materials will biodegrade in soil.

IV SAFE HANDLING INFORMATION

Risk Phrases: R34 – Causes burns
R41 – Risk of serious damage to eyes

Safety Phrases: S2 – Keep out of reach of children
S23 – Do not breathe vapour
S26 – In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

Storage & Transport:

Storage: Keep in original container tightly closed in a safe place. Keep away from food, drink and stock food.

Transport: Consider non hazardous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Packaging and Labelling:

Keep out of reach of children. Read safety directions before opening. The product has been assessed according to the Worksafe criteria for classifying hazardous substances and is classified as hazardous:

Spills and Disposal:

Contain spill and absorb with sand or proprietary absorbent (vermiculite). Prevent from entering drains, waterways or sewers. Collect in sealed open-top containers for disposal. Final clean up with lime or dilute soda ash is advised to neutralise propionic acid. Triple rinse containers, add rinsate to the spray tank, then offer container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. On-site disposal of concentrate is not acceptable.

Fire/Explosion Hazard:

If involved in a major fire, could evolve acrid fumes. Extinguishing media: Water, dry chemical CO₂.

Reactivity Data: Stable material but avoid high alkaline conditions. Hazardous polymerisation will not occur.

V OTHER INFORMATION

Contact Points:

Police and Fire Brigade:	Dial 000
National Poisons Information Centre:	Dial 13 1126 (from anywhere in Australia)
Generex (Aust) Pty Ltd	Dial (02) 9955 7799
	Fax (02) 9955 6599

Please read all labels carefully before using this product.