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MATERIAL SAFETY DATA SHEET

PUREX METAL FREE ALAECIDE

ISSUED: 1st January 2005

IDENTIFICATION

PRODUCT NAME	Purex Metal Free Algaecide	UN Number:	Not applicable
OTHER NAMES:	Not applicable	Hazchem Code:	Not applicable
		Dangerous Goods Class:	Not applicable
		Toxic Substances Schedule:	S6

Hazardous according to the criteria of NOHSC of Australia.

USES

Industrial microbicide, typically applied direct via a chemical metering pump.

PHYSICAL DESCRIPTION / PROPERTIES

Appearance	Clear, pale yellow liquid with mild odour
Boiling Point	> 100°C
Vapour Pressure	Not tested
Specific Gravity	1.15 @ 25°C
Flashpoint	None
Flammability Limits	Not tested
Solubility in Water	Soluble
pH, neat	6 - 8
pH, 100 ppm	6 - 7

INGREDIENTS

Chemical Name: CAS Number: % by weight:

Other ingredients are determined not to be hazardous, based on available information.

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HEALTH HAZARD INFORMATION

HEALTH EFFECTS

1. Effects from Acute Exposure

IF SWALLOWED:	May be harmful if swallowed. Acute oral LD50 (Rats): Male: 1951 mg/kg, Female: 2587 mg/kg
EYE:	Irritating to the eyes.
SKIN:	Non-irritating to skin. LD50 (Rabbit): > 2000 mg/kg.
INHALED:	Harmful by inhalation. LC50 (Rats): 2.9 mg/l (4 hour exposure)

2. Effects from Chronic Exposure

The effects from chronic exposure have not been fully evaluated. However studies with male rats and female and male mice show no evidence of carcinogenic response. A two year rat carcinogenicity study showed a slight increase in c-cell adenomas in female rats. This product is not considered a carcinogen. Dermal sensitisation studies in guinea pigs show no evidence of sensitisation.

As with any chemical, ingestion, inhalation, and prolonged and repeated skin contact should be avoided by good occupational work practice.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre.

IF SWALLOWED:	Do NOT induce vomiting. Rinse mouth with copious amounts of water. This should then be followed by 1 to 2 glasses of water. Take individual to nearest medical facility.
EYES:	Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.
SKIN:	Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists, consult a health care professional.
INHALATION:	If exposure by inhalation is suspected, immediately move the exposed

individual to fresh air - avoid becoming a casualty. If individual experiences nausea, headache, dizziness or has difficulty breathing, seek a health care professional immediately.

ADVICE TO DOCTOR: No specific antidote is known. Treat symptoms. Medical consultation is available 24 hours day. Call the Buckman office on 0408 255 124. If no response, call toll free on 1800-127-295.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS

No exposure standards have been allocated for this product.

ENGINEERING CONTROLS

Use in a well ventilated area.

PERSONAL PROTECTION

Rubber gloves, overalls, safety shoes and safety glasses or goggles are required. Wear breathing protection if the risk of inhalation of mists exists.

FLAMMABILITY

Not flammable under conditions of use.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in a cool, dry, ventilated area, away from direct sunlight. Do not store near anionic polymers.

TRANSPORT

UN No.	None allocated.
ACTDG	None allocated.
Packaging Group	None allocated.

SPILLS AND DISPOSAL

LARGE SPILLS: Dam area to prevent spill from spreading. Pump into appropriate containers. If not useable, dispose of as below.

SMALL SPILLS: Absorb small spills with dry sand, earth, or other non-combustible material for later disposal. Wash away residues with water.

DISPOSAL: Note: Follow federal, state and local regulations governing the disposal of waste materials.

PRODUCT DISPOSAL: Product is not a hazardous waste and can be disposed of in an approved landfill.

CONTAINER DISPOSAL: Rinse empty drums and send to nearest drum reconditioner. Return empty polyboxes to Buckman Laboratories.

FIRE/EXPLOSION HAZARD

FLAMMABLE LIMITS: Not tested.

EXTINGUISHING MEDIA: Water foam, carbon dioxide, dry chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: Unknown, but carbon monoxide may be released on burning.

SPECIAL FIREFIGHTING PROCEDURES: Self contained breathing apparatus is required.

OTHER INFORMATION

SATISFACTORY MATERIALS OF CONSTRUCTION: Polypropylene, Plexiglas, Teflon, PVC- rigid, Buna-N rubber, Viton, EPDM rubber, PVC- flexible, Neoprene, Fibreglass, Polyethylene- low density, Tygon, Tyril 880, Gum rubber, Silicone rubber, Hypalon, Polyethylene- high density, Stainless steels 304 and 316, Butyl rubber, ABS (Plastic), Morton test liner (108 T 44LV), Nylon 6/6, FRP lined mild steel.

The materials listed above have been tested with Purex Metal Free Algaecide. With respect to all other materials not listed above, user should be aware that use of such materials with Purex Metal Free Algaecide may be hazardous and result in damages to such materials and other property and personal injuries. No data concerning such materials not listed above should be implied by the user.

ENVIRONMENTAL TOXICOLOGICAL

INFORMATION: Acute Aquatic LC50s

48 hour *Daphnia Magna*: 0.37 mg/l
96 hour Fathead minnow: 0.26 mg/l
96 hour Rainbow trout: 0.047 mg/l
96 hour Bluegill sunfish: 0.21 mg/l (standard test water)
96 hour Bluegill sunfish: 6.7 mg/l. This test was carried out in natural river water. As such, the result is expected to be more reflective of the lower aquatic toxicity of this product in a natural environment.

Acute Marine LC50s

96 hour Sheepshead minnow: > 600 mg/l
96 hour Mysid Shrimp: 13.0 mg/l
96 hour Quahog clam: 0.35 mg/l

Avian Acute Oral LD50s

Mallard ducks: 805 mg/kg
Bobwhite quail: 1100 mg/kg

Avian Dietary LC50s

Mallard ducks: > 5620 ppm
Bobwhite quail: > 20000 ppm

CONTACT POINT

Price Chemicals Pty Ltd: 02 4340 0088

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the product data sheet is the responsibility of the user.