

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

KYTOGEN

SUPPLIER NAME: Zelam Limited
SUPPLIER CODE: None
SUPPLIER ADDRESS: Hudson Road, Bell Block, New Plymouth, New Zealand
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CHEMICAL FAMILY: Carbohydrate USE: Fungicide

2. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Chitosan	9012-76-4	<20 %	
Inerts		Balance	

3. HAZARDS IDENTIFICATION:

Danger - this product is corrosive and may cause eye damage.
Harmful - may cause skin irritation. Avoid contact with skin.
Harmful - may cause organ damage from repeated oral exposure at high doses.
Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.
Refer to Section 15 for ERMA Requirements.

4. FIRST - AID MEASURES:

EYE CONTACT: Hold eyelids open and immediately flush eyes with flowing water for at least 15 minutes. Get prompt medical attention.
SKIN CONTACT: Immediately flush with plenty of water while removing contaminated clothing. DO NOT scrub the skin. Continue for at least 15 minutes. Wash clothing before reuse.
INHALATION: Avoid inhalation of spray or mists which are likely to be irritating. Remove to a source of fresh air and seek medical advice.
INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.
NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable HAZCHEM Code: 2X
FLAMMABLE LIMITS: Not available
EXTINGUISHING MEDIA: Water spray (fog), foam, carbon dioxide or dry chemical.
THERMAL DECOMPOSITION PRODUCTS: None
SPECIAL FIRE FIGHTING METHODS: Keep runoff out of waterways.
UNUSUAL FIRE OR EXPLOSION HAZARDS:

6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Spills may be slippery and should be cleaned up immediately.
Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Store in original container, tightly closed away from foodstuffs.
Wear personal protective equipment appropriate to the situation when handling product. Wash protective clothing daily.
Harmful - Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: Not established by OSHA.
EYE PROTECTION: Chemical goggles or face shield where splash may occur.
RESPIRATORY PROTECTION: Not normally required. Exceptions: in the case of fire or during the formation of mists or aerosols.
PROTECTIVE CLOTHING: If skin contact or contamination of clothing is likely, protective clothing should be worn.
Wash protective clothing daily after work.
VENTILATION: General (mechanical) room ventilation is considered satisfactory.
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Dark brown liquid	pH:	4
BOILING POINT:	>100 °C	SETTING POINT:	Not applicable
DENSITY:	1.1	AUTOIGNITION TEMP:	Not applicable
DECOMPOSITION TEMP:	Not available	VAPOUR DENSITY:	Not available
FLASHPOINT:	Not applicable	VAPOUR PRESSURE:	Not available
EXPLOSION PROPERTIES:	Not available		
SOLUBILITY:	Soluble in water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID: None.
MATERIALS TO AVOID: None.
HAZARDOUS DECOMPOSITION PRODUCTS: None.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL: Not considered toxic
ACUTE DERMAL: No available data
ACUTE INHALATION: No available data
OTHER TOXICITY INFORMATION: 8.3A; Danger - this product is corrosive and may cause eye damage.
6.3A; Harmful - may cause skin irritation. Avoid contact with skin.
6.9B; Harmful - may cause organ damage from repeated oral exposure at high doses.

12. ECOLOGICAL INFORMATION:

9.1A; Very toxic to fish/aquatic organisms with long-lasting effects. Avoid contamination of any water supply with product or empty container.

13. DISPOSAL CONSIDERATIONS:

Triple rinse container and add rinsate to spray tank. Dispose of container at an approved landfill or Agrecovery Depot. Avoid contamination of any water supply or stream with this product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S	UN Hazard Class:	9.
UN Number:	3082	Packing Group:	III
Hazchem Code:	2X		
Additional Information:	Contains Chitosan		

15. REGULATORY INFORMATION:

Kytogen shall not be applied onto or into water.

APPROVED HANDLER: The product shall be under the personal control of an approved handler when:

- the product is applied in a wide dispersive manner; or
- used by a commercial contractor.

However, it may be handled by a person who is not an approved handler if:

- an approved handler is present at the facility where the substance is being handled; and
- the approved handler has provided guidance to the person in respect to the handling of the product; and
- the approved handler is available at all times to provide assistance if necessary.

RECORD KEEPING: A written record of use is required if 3 kg or more of the product is used within 24 hours in a place where:

- public may lawfully be present; or
- the substance is likely to enter air or water and leave the place.

The information must be kept for a minimum of three [3] years.

ERMA Approval Code: HSR100003
ACVM Pesticide Number: P007994
See the ERMA Website for more details: www.ermanz.govt.nz

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.