

SAFETY DATA SHEET - Turbifloc



ABN: 49 158 485 039

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1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name: **Turbifloc**
 Active ingredient: **Chitosan**
 Supplier: **TURBID PTY LTD**

Emergency Contact Information

Telephone (07) 5471 2290
 Fax (07) 5302 6680
 Email info@turbid.com.au
 Address 5 Vision Court, Noosaville QLD 4566
 Poisons Information Centre Phone 13 11 26 from anywhere in Australia

2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

Classified as: NOT HAZARDOUS according to the criteria of Safe Work Australia
 Classified as NON-DANGEROUS GOODS by the criteria of Australian Dangerous Goods Code (ADG Code) for transport by road and rail.
 Risk phrases: Not Hazardous – No criteria found
 Safety phrases: None allocated
 ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG criteria.
 UN Number: None allocated
 None allocated NONE. Not hazardous.

HAZARD STATEMENT: May be irritating to eyes and skin

PREVENTION
 P102: Keep out of reach of children.
 P262: Do not get in eyes, on skin, or on clothing.
 P281: Use personal protective equipment as required.

RESPONSE
 P362: Take off contaminated clothing and wash before reuse.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313: If skin irritation occurs: Get medical advice.
 P337+P313: If eye irritation persists: Get medical advice.

RESPONSE (cont)	P370+P378: Not combustible. Use extinguishing media suited to burning materials
STORAGE	P403+P233: Store in a well-ventilated place. Keep container tightly closed.
DISPOSAL	Wearing protective equipment detailed above, and ensuring any ignition sources are eliminated, absorb with sodium carbonate - sodium bicarbonate, collect and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required).
	Legislation Dispose of in accordance with relevant local legislation.

3. COMPOSITION/ INFORMATION ON INGREDIENTS			
Name	CAS Number	EC Number	Content
Non-Hazardous Ingredients	Not available	Not Available	Remainder
Organic Polymer (s)	-	-	<5%
Organic Acid (s)	-	-	<2%
This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other nonhazardous ingredients are also possible.			

4. FIRST AID MEASURES	
Eye contact:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
Skin contact:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhalation:	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Ingestion:	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

5. FIRE FIGHTING MEASURES	
Extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Flash point (°C):	Material is non-flammable. May evolve toxic gases (acetic acid, hydrocarbons, carbon oxides) when heated to decomposition.
Special Procedures:	None.
Unusual hazards:	None known.
Conditions to avoid:	None known.
Decomposition products:	May evolve toxic gases (acetic acid, hydrocarbons, carbon oxides) when heated to decomposition.
Advice for firefighters	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

6. ACCIDENTAL RELEASE MEASURES

General Response:	Personnel involved in the clean-up should wear appropriate protective clothing as listed in section 8. Slippery when spilt.
Clean Up Procedure:	Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

7. HANDLING & STORAGE

Handling:	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.
Storage:	Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Store as a Class C2 Combustible Liquid (AS1940).
	Turbifloc has a shelf life of 12 months. Batches should be marked with production date and expiry date of 12months.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards	None Established
Engineering Controls	Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.
Personal Protective Equipment:	
Respiratory Protection:	General exhaust ventilation should be adequate.
Eye Protection:	Wear splash-proof goggles
Skin and body protection:	Disposable latex gloves, overalls or apron as appropriate. Rubber boots can be used in wet conditions but mainly as protection from the water

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear gel
Odour:	Slight odour
Boiling point (°C):	100 °C approximately
Melting point (°C):	0 °C approximately
Specific Gravity (H ₂ O = 1):	1 approximately
pH	3.0 – 5 at 25°C
Vapour pressure (kPa):	Not applicable
Relative vapour density:	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Keep containers tightly closed
Incompatible Materials	Incompatible with oxidising agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide), heat and ignition sources.
Decomposition products:	May evolve toxic gases (acetic acid, hydrocarbons, carbon oxides) when heated to decomposition.
Hazardous polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	This product is expected to be of low toxicity. Based on available data, the classification criteria are not met.
Irritation:	
Skin:	Not classified as a skin irritant. Contact may result in mild irritation, redness, pain and rash.
Eyes	Not classified as an eye irritant. However, direct contact may result in mild irritation, lacrimation, pain and redness.
Chronic Toxicity:	No chronic effects
Aspiration	Not classified as causing aspiration.
Target organs:	There is no data to hand indicating any particular target organs.

12. ECOLOGICAL INFORMATION

Environmental fate and distribution:

Chitosan is a derivative of Chitin, the world's second most abundant biopolymer after cellulose and readily biodegrades. It is commonly obtained from natural sources such as crustaceans and fungi.

Ecotoxicity:

Not expected to be harmful to aquatic organisms.

Effective Concentration Method Assessment:

Ecotoxicity screening carried out in March 2017 indicated:

For the 96-hr acute toxicity test using the Eastern Rainbowfish (*Melanoanotaenia splendida splendida*) the EC50 = >100mg/L

For the 48-hr acute toxicity test using the freshwater flea *Ceriodaphnia dubia* the EC50 = >100mg/L when diluted at a 1 in 2 ratio

Bio accumulative Potential:

Does not bio accumulate.

13. DISPOSAL CONSIDERATIONS

Waste disposal method:

Refer to local waste disposal authority. Wearing protective equipment detailed above, and ensuring any ignition sources are eliminated, absorb with sodium carbonate - sodium bicarbonate, collect and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required).

Dispose of product 12 months after production/batch date

14. TRANSPORT INFORMATION

This product does not carry a Dangerous Goods classification. NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

15. REGULATORY INFORMATION

All components are listed on AICS, or are exempt..

16. OTHER INFORMATION

This SDS was prepared in accordance with the Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)

AICS Australian Inventory of Chemical Substances

SWA Safe Work Australia, formerly ASCC and NOHSC

CAS Number Chemical Abstracts Service Registry Number

Hazchem code Emergency action code of numbers and letters that provide information to emergency services especially firefighters

IARC International Agency for Research on Cancer

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phase Risk Phrase

SUSMP Standard for the Uniform Scheduling of Medicines & Poisons

Un Number United Nations Number

References cited:

1. American Conference of Governmental Industrial Hygienists (ACGIH), Documentation of the Threshold Limit Values and Biological Exposure Indices, 6th Edition, ACGIH, Cincinnati, Ohio, 1991.
2. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
3. Registry of Toxic Effects of Chemical Substances (RTECS)
4. Sax's, Dangerous Properties of Industrial Materials, Edition 8, Ed. RJ Lewis Sr., van Nostrand Reinhold.

Revision 5: Issued 14 Jun 2019

This SDS summarizes to our best knowledge of health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. Please contact the company if any further information is required.