

Shield Cooler Algae Inhibitor 3%



1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

Product name **Shield Cooler Algae Inhibitor 3%**
 Synonym **RBT- 247 – External Algae, Fungi & Bacteria Killer – 3% RTU**
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2. HAZARDS IDENTIFICATION

Classification Not classified as hazardous by the dermal, oral or inhalation route when used as directed.
 Risk phrases None apportioned or identified for the product under directive 1999/45 EC.
 Adverse physical, chemical and human health and environmental effects None apportioned or identified for the product under directive 1999/45 EC.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance	EINECS	CAS no.	Classification	Range
Didecyldimethylammonium chloride	230-525-2	7173-51-5	C (R34), Xn (R22), N (R50)	0.05 – 0.06%
Benzyl-C12-16-alkyldimethyl chlorides	270-325-2	68424-85-1	C (R34), Xn (R22), N (R50)	0.05 – 0.06%
Polyhexamethylenebiguanide hydrochloride	Polymer	27083-27-8	None	0.1 – 0.2%
Inert materials and surfactants				99.6 – 99.8%

4. FIRST AID MEASURES

Skin contact This product is not classified as hazardous to skin, so adverse reactions are not anticipated in normal handling and use. However, should a reaction occur, then wash the affected area with clean water and seek medical advice.
 Eye contact Rinse affected eye with clean running water or eye wash for up to 15 minutes.
 Inhalation Exposure via inhalation is not anticipated. Remove affected person to fresh air and keep warm, seek medical attention if patient feels unwell.
 Ingestion DO NOT induce vomiting. Rinse mouth with clean water and drink plenty of water.

5. FIRE FIGHTING MEASURES

Products of combustion This product is non-combustible as it is water-based with non-flammable components.
 Extinguishing media If required, use water spray, carbon dioxide, foam, dry chemicals for extinguishing.
 Special hazards arising from the substance or mixture Firefighting water must not enter drain. Toxic incineration products NOx, HCl, CO may be released.
 Advice for fire-fighters Use suitable respiratory protection and if required wear self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	For personal protection see Section 8.
Environmental precautions	Not special precaution required
Methods and material for containment and cleaning up	No special requirement. Use water as required. In the event of large amount of spillage, contain and absorb liquid with dry sand or similar material.

7. HANDLING AND STORAGE

Handling	Use in accordance with product label and as directed.
Storage	Store in original container. Protect from extreme temperatures. Use product within use-by date.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Exposure controls	
Engineering controls	Respiratory protection not required.
Hand protection	Not required in normal handling and use.
Eye protection	Not required in normal handling and use.
Skin protection	Not required in normal handling and use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Fluid
Colour	Colourless to pale straw
Odour	Characteristic
pH	5 – 7 (at 20°C with pH indicator strip)
Flash point	Does not ignite
Solubility in water	Soluble
Volatiles	None

10. STABILITY AND REACTIVITY

Reactivity	Stable and is not expected to have any hazardous reaction.
Chemical stability	Store in a cool dry place.
Possibility of hazardous reactions	None.
Conditions to avoid	None known
Incompatible materials	None.
Hazardous decomposition products	

11. TOXICOLOGICAL INFORMATION

Toxicological information	
Acute toxicity – oral	Not anticipated with this formulation if used as advised.
Acute toxicity – dermal	Not classified as harmful by the dermal route by the conventional method using information derived from supplier's SDS at given concentration.
Inhalation exposure	Not anticipated with this formulation if applied as advised.
Contact with skin	Not classified as irritating to skin
Contact with eyes	Not classified as irritating to eyes
Sensitisation	Does not contain sensitiser.

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12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPBT assessment	This mixture does not contain any substance considered to be PBT or vPBT.
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal	Although this product is not classified as Hazardous Waste, observation of federal, state and local environment regulations is required and duty of care observed in disposal processes.
Packaging disposal	Drain well. Check to see if type of plastic is fit for recycling. Observe national and regional regulations regarding disposal.

14. TRANSPORT INFORMATION

This Material is not defined as Dangerous Goods as defined by the following regulations:

ADR	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods
RID	Not dangerous goods

15. REGULATORY INFORMATION

Safety, health and environmental regulations and legislation specific for the substance or mixture

This safety data sheet is classified using information on active substance suppliers under *EU 944/2013, amended version of 1272/2008/EC*

16. OTHER INFORMATION

The statements are based on the current status of our information; they are meant to describe the products with regard to safety requirements and consequently do not have the significance of guaranteeing certain characteristics.