

### 1. IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

Product name	<b>Shield Cooler Algae Inhibitor</b>
Synonym	<b>RBT 247- External Algae, Fungi &amp; Bacteria Killer</b>
Description	For use in existing commercial dispense cooling systems. Algae inhibitor in water baths. Can be used in spray form for pre-use treatment for new equipment.
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### 2. HAZARDS IDENTIFICATION

#### Classification of the mixture according to Regulation (EC) no. 1272/2008

Hazardous to aquatic environment, Category 1	H400: Very toxic to aquatic life
Eye irritation, Category 2	H318: Causes serious eye damage H335: May cause respiratory irritation

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Irritant	R36: Irritating to eyes.
Dangerous for the environment	R50: Very toxic to aquatic organisms.

#### Labelling elements

Labelling according to Regulation (EC) no. 1272/2008: This product is classified and labelled according to CLP regulation

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements:

H400: Very toxic to aquatic life  
H318: Causes serious eye damage

#### Precautionary Statement

P273: Avoid release to environment  
P260: Do not breathe spray  
P264: Wash hands thoroughly after handling  
P280: Wear protective gloves/eye protection/face protection  
P305+P351+P338: If in eyes, rinse with water for several minutes.  
Remove contact lenses if present or easy to do so.

#### Response

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<b>Chemical nature</b>	Aqueous solution			
<b>Hazardous components</b>	<b>EINECS</b>	<b>CAS no.</b>	<b>Classification</b>	<b>Range</b>
Didecyldimethylammonium chloride	230-525-2	7173-51-5	C (R34), Xn (R22), N (R50)	1 – 2%
Benzyl-C12-16-alkyldimethyl chlorides	270-325-2	68424-85-1	C (R34), Xn (R22), N (R50)	1 – 2%
Polyhexamethylenebiguanide hydrochloride	Polymer	1802181-67-4	Xn (R22), Xi (R41), N (R50-53)	3 – 4%
Inert materials, surfactants and water				92 – 95%



**4. FIRST AID MEASURES**

Skin contact	Remove contaminated clothing and wash affected area with water and soap thoroughly and rinse. If patient feels unwell, seek medical advice.
Eye contact	Rinse affected eye with clean running water or eye wash for up to 15 minutes. Seek medical attention.
Inhalation	Exposure via inhalation is not anticipated. Remove patient to fresh air and keep warm. Seek medical attention if patient feels unwell.
Ingestion	DO NOT induce vomiting. Seek medical advice and if required, give patient up to 500 ml of water to drink.

**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 NO <sub>x</sub> , HCl, CO may be released.
Advice for fire-fighters	Use suitable respiratory protection and if required wear self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:	Wear suitable protective equipment. Keep unprotected persons away.
Environmental precautions	This product is classified as Dangerous for the Environment. Keep away from drains, surface water and soil.
Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, and universal sawdust). Ensure adequate ventilation.

**7. HANDLING AND STORAGE**

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

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Exposure controls	Contains no substances with occupational exposure limit values
Respiratory protection	Use respirator when performing operations involving potential exposure to vapour of the product.
Hand protection	Not required in normal handling and use but precautionary use of gloves is recommended.
Eye protection	Wear appropriate goggles and avoid contact with eyes.
Skin protection	Not required in normal handling and use but precautionary use of apron is recommended

## 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 a hazardous reaction
Chemical stability	Stable under normal temperature. Store in a cool dry place.
Possibility of hazardous reactions	None
Conditions to avoid	None known
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	None known

## 11. TOXICOLOGICAL INFORMATION

Toxicological information	
Acute toxicity – oral	Not classified as harmful by the oral route by the conventional method using information derived from supplier's SDS.
Acute toxicity – dermal	Not classified as harmful by the dermal route by the conventional method using information derived from supplier's SDS.
Inhalation exposure	Not anticipated with this formulation if applied as advised.
Contact with skin	Not classified as irritating to skin but is recommended to wear protective gloves accordingly.
Contact with eyes	Serious eye damage.
Sensitisation	Does not contain sensitiser
Chronic Health Effects:	
Mutagenicity	Components do not exhibit mutagenic properties in reported in-vitro studies.
Reproductive toxicity	Components do not exhibit reproductive toxicity effects in reported studies.

## 12. ECOLOGICAL INFORMATION

Toxicity	Dangerous for the environment, contains components very toxic to the aquatic environment.
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	This product must be disposed of and classified as Hazardous Waste and therefore disposed of accordingly. Must not be disposed together with household waste. Observation of federal, state and local environment regulations is required and duty of care observed in disposal processes.
Packaging disposal	Ensure used packaging is purged and fully cleaned before disposal and dispose of washings following assessment

### 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 / legislations specific for the substance or mixture

This safety data sheet has been 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.

This version replaces all other previous versions.