Product Code 24284BIO

Product Name BIOGUARD OFF SEASON ARCTIC BLUE

**WINTER KIT 24** 

# SAFETY DATA SHEET

16-Aug-2016

# 1. IDENTIFICATION

Product identifier

Product Name BIOGUARD ARCTIC BLUE ALGAE PROTECTOR

Other means of identification

Product Code 24297BIO UN/ID no. UN1760

Recommended use of the chemical and restrictions on use
Recommended Use
Uses advised against
Swimming pool algaecide.
Do not mix with other chemicals

Details of the supplier of the safety data sheet

Supplier Address
Bio-Lab, Inc.
P.O. Box 300002
Lawrenceville, GA 30049-1002
Telephone 800-859-7946

Emergency telephone number

Emergency Telephone Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

Poison Control Center (Medical): (877) 800-5553

# 2. HAZARDS IDENTIFICATION

# Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 5
Serious eye damage/eye irritation	Category 2A
Corrosive to metals	Category 1

### Label elements

## **Emergency Overview**

# Warning

# Hazard statements

May be harmful if swallowed Causes serious eye irritation May be corrosive to metals



Color Blue green Physical state liquid Odor acidic

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep only in original container

## **Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell

Specific treatment (see back panel on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention

Absorb spillage to prevent material damage

# **Precautionary Statements - Storage**

Store in original plastic container. Store in a well-ventilated place. Keep cool

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

23.3% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	CAS No.	Weight-%
Copper (metallic)	7440-50-8	3.3*

<sup>\*</sup> Derived from Copper sulfate pentahydrate (CAS # 7758-99-8)

# 4. FIRST AID MEASURES

# **Description of first aid measures**

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Call a physician.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated

clothing and shoes. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. Oxygen or artificial respiration if needed. If symptoms persist, call a

physician.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean

mouth with water and drink afterwards plenty of water. Call a physician.

# Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

## Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

#### Specific hazards arising from the chemical

No information available.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Ensure adequate ventilation, especially in confined areas.

Environmental precautions

**Environmental precautions**Do not allow into any sewer, on the ground or into any body of water. See Section 12 for

additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Soak up with inert absorbent material. Pick

up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not mix with other chemicals.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep in a dry, cool and well-ventilated place.

Incompatible materials Incompatible with oxidizing agents. Do not mix with other swimming pool/spa chemicals in

their concentrated forms.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper (metallic)	TWA: 0.2 mg/m³ fume TWA: 1	TWA: 0.1 mg/m <sup>3</sup> fume	IDLH: 100 mg/m <sup>3</sup> dust, fume and
7440-50-8	mg/m <sup>3</sup> Cu dust and mist	TWA: 1 mg/m <sup>3</sup> dust and mist	mist IDLH: 100 mg/m3 Cu dust and
	-	(vacated) TWA: 0.1 mg/m <sup>3</sup> Cu dust,	mist
		fume, mist	TWA: 1 mg/m <sup>3</sup> dust and mist
			TWA: 0.1 mg/m³ fume TWA: 1
			mg/m³ Cu dust and mist

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

# **Appropriate engineering controls**

**Engineering Controls** Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state liquid

Appearance aqueous solution Odor acidic

Color Blue green Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

**pH** 2-3

Melting point/freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)

No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Specific Gravity 1.18

Water solubility Miscible in water

Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available No information available **Dynamic viscosity** Density No information available **Bulk density** No information available **Explosive properties** No information available

Oxidizing properties Not applicable

Other Information

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information available

# 10. STABILITY AND REACTIVITY

Reactivity

No data available

**Chemical stability** 

Stable under recommended storage conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

#### Incompatible materials

Incompatible with oxidizing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms.

## **Hazardous Decomposition Products**

Carbon oxides. Sulphur oxides. copper oxides.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Inhalation** Not an expected route of exposure.

**Eye contact** Severely irritating to eyes.

**Skin contact** Not expected to cause skin irritation under normal use conditions.

**Ingestion** May be harmful if swallowed.

# Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
No information available.
No information available.
No information available.

Target Organ Effects Eyes.

**Aspiration hazard** No information available.

# Numerical measures of toxicity - Product Information

**Oral LD50** 3501 mg/kg (rat) **Dermal LD50** > 5000 mg/kg (rat)

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

29% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Copper (metallic)	0.0426 - 0.0535: 72 h	0.0068 - 0.0156: 96 h Pimephales	0.03: 48 h Daphnia magna mg/L
7440-50-8	Pseudokirchneriella subcapitata	promelas mg/L LC50 0.3: 96 h	EC50 Static
	mg/L EC50 static 0.031 - 0.054: 96	Pimephales promelas mg/L LC50	
	h Pseudokirchneriella subcapitata	static 0.2: 96 h Pimephales	
	mg/L EC50 static	promelas mg/L LC50 flow-through	
		0.052: 96 h Oncorhynchus mykiss	
		mg/L LC50 flow-through 1.25: 96 h	
		Lepomis macrochirus mg/L LC50	
		static 0.3: 96 h Cyprinus carpio	
		mg/L LC50 semi-static 0.8: 96 h	
		Cyprinus carpio mg/L LC50 static	

0.112: 96 h Poecilia reticulata mg/L LC50 flow-through

Persistence and degradability

No information available.

Bioaccumulation

No information available.

**Mobility** 

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container. Refer to all federal, state and local regulations prior to disposal of

container and unused contents by reuse, recycle or disposal.

14. TRANSPORT INFORMATION

Note: Limited quantity (LQ) exception is possible

**DOT** 

**UN/ID no.** UN1760

Proper shipping name Corrosive liquids, n.o.s. (contains delta-gluconolactone)

Hazard Class 8
Packing Group III
Emergency Response Guide 154

Number

<u>IATA</u>

**UN/ID no.** UN1760

Proper shipping name Corrosive liquid, n.o.s. (contains delta-gluconolactone)

Hazard Class 8
Packing Group III

<u>IMDG</u>

UN/ID no. UN1760

Proper shipping name Corrosive liquid, n.o.s. (contains delta-gluconolactone)

Hazard Class 8
Packing Group III
EmS-No. F-A, S-B

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# **US Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
Copper (metallic) - 7440-50-8	1.0	
SARA 311/312 Hazard Categories		
Acute health hazard	Yes	
Chronic Health Hazard	No	
Fire hazard	No	
Sudden release of pressure hazard	No	
Reactive Hazard	No	

# **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper (metallic) 7440-50-8	-	X	X	-

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Copper (metallic)	5000 lb	-	RQ 5000 lb final RQ
7440-50-8			RQ 2270 kg final RQ

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Copper (metallic)	X	X	X
7440-50-8			

### U.S. EPA Label Information

# **EPA Pesticide Registration Number** 5185-474

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

### Difference between SDS and EPA Pesticide label

WARNING: Causes substantial, but temporary, eye injury. Harmful if swallowed. Harmful if inhaled. Do not get in eyes or on clothing. Avoid breathing vapors. Wear safety glasses or goggles. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical
				Properties -
HMIS_	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection X

Prepared By Regulatory Affairs

**Revision Date** 16-Aug-2016

Revision Note No information available

**Disclaimer** 

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

# SAFETY DATA SHEET

26-Mar-2015

# 1. IDENTIFICATION

Product identifier

Product Name BIOGUARD OFF SEASON ARCTIC BLUE SHOCK

Other means of identification

Product Code 24298BIO

Recommended use of the chemical and restrictions on use
Recommended Use
Uses advised against
Swimming Pool Product.
Do not mix with other chemicals

Details of the supplier of the safety data sheet

Supplier Address Bio-Lab, Inc. P.O. Box 300002 Lawrenceville, GA 30049-1002 Telephone 800-859-7946

Emergency telephone number

Emergency Telephone Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

Poison Control Center (Medical): (877) 800-5553

# 2. HAZARDS IDENTIFICATION

# Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category C
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

# **Emergency Overview**

#### Danger

#### Hazard statements

Causes severe skin burns and eye damage
Suspected of damaging fertility or the unborn child
May cause respiratory irritation
Harmful if swallowed
Harmful in contact with skin

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Color white Physical state Solid Odor Chlorine

## **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

# **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

# **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

0.099999% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixture

Chemical Name	CAS No.	Weight-%
Sodium Dichloro-S-Triazinetrione	2893-78-9	58.2
Boron sodium oxide (B4Na2O7), pentahydrate	12179-04-3	5-10
aluminium sulfate	10043-01-3	5-10

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

**General advice** Immediate medical attention is required. If symptoms persist, call a physician.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated

clothing before reuse. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin.

Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be

necessary. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person. Clean mouth with water and drink afterwards

plenty of water. Call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric

lavage.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Flood fire area with water from a distance.

**Unsuitable extinguishing media** Do not use dry chemicals, carbon dioxide, or halogenated extinguishing agents.

Specific hazards arising from the chemical

Do not let the fire burn. Thermal decomposition can lead to release of toxic/corrosive gases and vapors. Wet material may generate nitrogen trichloride, an explosion hazard.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

spill/leak. Evacuate personnel to safe areas.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do

not flush into surface water or sanitary sewer system. See Section 12 for additional

ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Do not add water to spilled material. Using clean dedicated

equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal. Do not close

containers containing wet or damp material. They should be left open to disperse any hazardous gases that may form.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Pick up and transfer to properly labeled containers. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water. Do not use floor sweeping compounds to clean up spills. Do not transport wet or damp material. Contact supplier in Section 1 for instructions, especially for damp or contaminated material.

## 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Do not mix with other chemicals. Keep/Store away from clothing/ combustible materials. Wash thoroughly after handling. Use only in well-ventilated areas.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly

labeled containers.

Incompatible materials Acids. Bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa

chemicals in their concentrated forms. Reducing agent.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

**Exposure Guidelines** 

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Boron sodium oxide (B4Na2O7), STEL: 6 mg/m³ inhalable fraction		(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	
	pentahydrate 12179-04-3	TWA: 2 mg/m³ inhalable fraction		-
	aluminium sulfate 10043-01-3	-	(vacated) TWA: 2 mg/m³ Al Aluminum	TWA: 2 mg/m³ Al

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

# Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

Chlorine

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

Odor

g/cm3

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Solid Appearance granules

Color White Odor threshold No information available

PropertyValuesRemarks • MethodpH5-5.5in 1% Solution

Melting point/freezing point
Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)

272 °C / 522 °F
No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit: No information available No information available Lower flammability limit: Vapor pressure No information available Vapor density No information available **Specific Gravity** No information available Water solubility No information available Solubility in other solvents No information available **Partition coefficient** No information available Autoignition temperature No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available

Density 1.0

Bulk densityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

Other Information

Softening point
Molecular weight
VOC Content (%)

No information available
No information available
No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

### **Conditions to avoid**

Extremes of temperature and direct sunlight.

# Incompatible materials

Acids. Bases. Ammonia. Calcium hypochlorite. Do not mix with other swimming pool/spa chemicals in their concentrated forms. Reducing agent.

# **Hazardous Decomposition Products**

Chlorine gas.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Inhalation** May cause irritation. May be harmful by inhalation.

**Eye contact** Risk of serious damage to eyes. Causes burns.

**Skin contact** Irritating to skin. Contact with moist skin may cause skin burns. Harmful in contact with skin.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dichloro-S-Triazinetrione 2893-78-9	= 735 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	0.27 - 1.17 mg/L (Rat, dust) 4 h
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	= 2403 mg/kg ( Rat )	-	-
aluminium sulfate 10043-01-3	= 1930 mg/kg (Rat)	-	-

## Information on toxicological effects

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

**Reproductive toxicity**This product contains a boron compound. This boron compound when fed to test animals

at very high doses has shown reproductive and developmental toxicity. When this product

is used according to label directions, the boron compound in this product does not

represent a practical risk to humans.

STOT - single exposure
STOT - repeated exposure
Chronic toxicity
Target Organ Effects

Aspiration hazard

No information available.
No information available.

Avoid repeated exposure.
Eyes, Respiratory system, Skin.
No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

Dermal LD50 599 mg/kg, (rat)

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

10% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Dichloro-S-Triazinetrione	<del>-</del>	0.25 - 1: 96 h Lepomis macrochirus	0.00018 - 0.00021: 48 h Daphnia
2893-78-9		mg/L LC50 static 0.207 - 0.389: 96	magna mg/L EC50 0.093 - 0.16: 48
		h Lepomis macrochirus mg/L LC50	h Daphnia magna mg/L EC50
		flow-through 0.176 - 0.267: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		flow-through 0.29: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		0.13 - 0.36: 96 h Oncorhynchus	
		mykiss mg/L LC50 static	
aluminium sulfate	-	100: 96 h Carassius auratus mg/L	136: 15 min Daphnia magna mg/L
10043-01-3		LC50 37: 96 h Gambusia affinis	EC50
		mg/L LC50 static	

# Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

#### **Mobility**

No information available.

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container. Refer to all federal, state and local regulations prior to disposal of

container and unused contents by reuse, recycle or disposal.

# 14. TRANSPORT INFORMATION

Note: Product classified as UN 3077 or UN 3082 that are shipped in containers not exceeding 5

kg or 5 L may ship as Not Subject to the provisions of the IMDG Code and Not Restricted

under IATA. Refer to IMDG Ch 2.10 and IATA SP-197.

**DOT** Not regulated

TDG Not regulated

**IATA** 

UN/ID no. UN3077

Proper shipping name Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetrione)

Hazard Class 9
Packing Group III

**Description** UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium

dichloro-s-triazinetrione), 9, III

<u>IMDG</u>

UN/ID no. UN3077

Proper shipping name Environmentally Hazardous Substance, Solid, n.o.s., (Sodium Dichloro-s-triazinetrione)

Hazard Class 9
Packing Group III

**Description** UN3077 Environmentally hazardous substances, solid, n.o.s. (Sodium

dichloro-s-triazinetrione), 9, III

Marine pollutant This material meets the definition of a marine pollutant

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## **US Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

	Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
	aluminium sulfate	5000 lb	-	-	X
- [	10043-01-3				

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
aluminium sulfate	5000 lb	-	RQ 5000 lb final RQ
10043-01-3			RQ 2270 kg final RQ

# **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Dichloro-S-Triazinetrione 2893-78-9	X	-	Х
Boron sodium oxide (B4Na2O7), pentahydrate 12179-04-3	-	Х	-
aluminium sulfate 10043-01-3	Х	X	Х

# **U.S. EPA Label Information**

### **EPA Pesticide Registration Number** 5185-475

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

# Difference between SDS and EPA Pesticide label

DANGER: Corrosive: Causes irreversible eye damage. Do not breathe dust; may be harmful if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Causes skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear (safety glasses). Wash thoroughly with soap and water after handling product. Remove contaminated clothing and wash clothing before reuse.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 3 Flammability 0 Instability 1 Physical and Chemical

Properties -

**HMIS** Health hazards 3\* Flammability 0 Physical hazards 1 Personal protection X

Prepared ByRegulatory AffairsRevision Date26-Mar-2015

Revision Note No information available

**Disclaimer** 

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**