

Material Safety Data Sheet

BC-215

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	BC-215
Product use	Biocide
Manufacturer	Athlon Solutions LLC P.O. Box 27727 Houston, TX, 77227-7727 USA
Telephone	1-713-457-2400
In case of emergency	1-800-424-9300 (CHEMTREC) 1-703-527-3887 (Outside U.S. - Call Collect)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Signal Word	Warning
Hazard Summary	Harmful. Irritant. May cause sensitization by skin contact.
Physical state	liquid
Color	yellow.
Odor	Hydrocarbon.
Primary Routes of Entry	Inhalation. Skin.

Potential Health Effects

Inhalation	Harmful if inhaled.
Skin	Causes skin irritation. May cause allergic skin reaction.
Eyes	Causes eye irritation.
Ingestion	No known significant effects or critical hazards.
Chronic Exposure	No known significant effects or critical hazards.
Medical conditions aggravated by over-exposure	Skin disorders

Environmental hazards

Environmental effects	Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
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See toxicological information (section 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

<u>Name</u>	<u>CAS no.</u>	<u>Weight %</u>
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	1 - 5
2-Methyl-4-isothiazolin-3-one	2682-20-4	0.1 - 1

SECTION 4. FIRST AID MEASURES

General advice	If you feel unwell, seek medical advice (show the label when possible). No action shall be taken involving any personal risk or without suitable training.
Inhalation	Move exposed person to fresh air. If symptoms persist, call a physician.
Skin contact	Take off contaminated clothing and shoes immediately. Flush contaminated skin with plenty of water. If symptoms persist, call a physician.
Eye contact	Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth with water. Drink plenty of water. Obtain medical attention. Never give anything by mouth to an unconscious person.
Notes to physician	No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Fire Hazard	No specific fire or explosion hazard.
Flash point	Does not flash
Autoignition temperature	Not available.
Flammable limits	Lower: Not available. Upper: Not available.
<u>Extinguishing media</u>	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Hazardous combustion products	Carbon oxides.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Further information	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Explosion hazard	Risk of explosion of the product in the presence of mechanical impact: Not available. Risk of explosion of the product in the presence of static discharge: Not available.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Avoid breathing vapor or mist. Do not touch or walk through spilled material. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid contact of spilled material with soil and prevent runoff entering surface waterways.
Methods for cleaning up	For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Handling	Use only with adequate ventilation. Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not enter storage areas and confined spaces unless adequately ventilated. Workers should wash hands and face before eating, drinking and smoking.
Storage	Keep container closed when not in use. Keep container in a well-ventilated area.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection

Hand protection	Impervious butyl rubber gloves. Nitrile rubber. Neoprene gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	Safety goggles.
Skin and body protection	Wear as appropriate: Chemical-resistant apron. Long sleeved clothing. Footwear protecting against chemicals.
Respiratory protection	In the case of vapor formation use a respirator with an approved filter.

Occupational Exposure Limits

Not established

Engineering measures	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands before breaks and immediately after handling the product.
Protective measures	Emergency baths, showers, or other equipment appropriate for the potential level of exposure should be located close to the workstation location. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Color	yellow.
Odor	Hydrocarbon.
Odor Threshold	Not available.
Melting/freezing point	Not available.
Pour point	-20 °F (-28.9 °C)
Boiling/condensation point	212 °F (100.0 °C)
Flash point	Does not flash
pH	4
Solubility	Water
Relative density	1.02
Vapor pressure	62.74 hPa at 100 °F (37.8 °C)

Relative vapor density	no data available
Evaporation rate	< 1
Viscosity	6.3 mPa.s
Partition coefficient: n-octanol/water	Not available.

Note: Typical values only - not to be interpreted as sales specifications

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions.
Conditions to avoid	Avoid temperatures above 140 °F, direct sunlight and contact with sources of heat. No specific data.
Materials to avoid	Reducing agents Oxidizing agents No specific data.
Hazardous decomposition products	No hazardous decomposition products are known.
Hazardous reactions	No dangerous reaction known under conditions of normal use.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

<u>Substance</u>	<u>Test type</u>	<u>Species</u>	<u>Dose</u>	<u>Classification</u>
Product	LD50 Oral	rat	5,500 mg/kg	Essentially non-hazardous.
Product	LC50 (dust/mist) Inhalation	rat	2.85 mg/l	Harmful
Product	LD50 Dermal		> 2,000 mg/kg	Essentially non-hazardous.

Irritation/Corrosion

No data is available on the product itself.

Sensitization

No data is available on the product itself.

Chronic toxicity

No data is available on the product itself.

Target organ effects

No data is available on the product itself.

Carcinogenicity

No data is available on the product itself.
None of the components are listed.

Mutagenicity

No data is available on the product itself.

Teratogenicity

No data is available on the product itself.

Reproductive toxicity

No data is available on the product itself.

SECTION 12. ECOLOGICAL INFORMATION

Environmental effects	Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
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Aquatic ecotoxicity

<u>Substance</u>	<u>Species</u>	<u>Exposure</u>	<u>Value type</u>	<u>Value</u>	<u>Endpoints</u>	<u>Classification</u>
Product	Inland silverside	96 h	LC50	30.1 mg/l	-	Harmful to aquatic organisms.

Biodegradation

No data is available on the product itself.

Bioaccumulation

No data is available on the product itself.

Octanol/water partition coefficient (LogPow) Not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal The product should not be allowed to enter drains, water courses or the soil. Dispose of wastes in an approved waste disposal facility. Empty containers or liners may retain some product residues. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging Dispose of as unused product.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 14. TRANSPORT INFORMATION

DOT

UN Number: 3265
Description of the goods Corrosive liquid, acidic, organic, n.o.s.(isothiazolinonechloride, METHYLCHLOROISO THIAZOLINONE)
Class 8
Packing group III
Labels 8
Emergency Response 153
Guidebook Number
Environmentally hazardous no

IATA

UN number 3265
Description of the goods Corrosive liquid, acidic, organic, n.o.s.(isothiazolinonechloride, METHYLCHLOROISO THIAZOLINONE)
Class 8
Packing group III
Labels 8

IMDG

UN number 3265
Description of the goods CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(isothiazolinonechloride, METHYLCHLOROISO THIAZOLINONE)
Class 8
Packing group III
Labels 8
Marine pollutant no

SECTION 15. REGULATORY INFORMATION

U.S. Federal regulations

FIFRA Classification:

EPA Registration Number: 67071-38-9018

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law.

Biocide Label Signal word: DANGER

Biocide Label Hazard statements: CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTION IN SOME INDIVIDUALS. This pesticide is toxic to aquatic plants, fish and aquatic invertebrates. This product is corrosive to mild steel.

CERCLA: Hazardous substances - Reportable quantity:

None of the components are listed.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Acute Health Hazard

SARA 313 - Supplier notification

None of the components are listed.

Clean Water Act (CWA) 307: None of the components are listed.

Clean Water Act (CWA) 311: None of the components are listed.

Clean Air Act (CAA) 112 accidental release prevention: None of the components are listed.

State regulations

Massachusetts Substances: None of the components are listed.

Pennsylvania RTK Hazardous Substances: None of the components are listed.

New Jersey Hazardous Substances: None of the components are listed.

California Prop. 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

International regulations

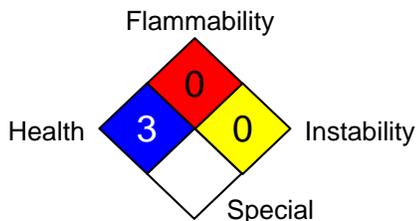
United States inventory (TSCA 8b): On TSCA Inventory

Canada inventory (DSL): All components of this product are on the Canadian DSL list.

Australia inventory (AICS) On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

National Fire Protection Association (U.S.A.):



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