



CLEARWATER™
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Material Safety Data Sheet

BIO CLEAR 750

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

1. Product and Company Identification

Material name BIO CLEAR 750
Version # 00
Revision date September-30-2011
CAS # Mixture
Manufacturer information Clearwater International LLC
 100 Leetsdale Industrial Dr.
 Leetsdale, PA 15056 United States
 Product Safety (724)-318-1050
 Chemtrec 1-800-424-9300

2. Hazards Identification

Emergency overview CAUTION
 Harmful if swallowed. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

- Routes of exposure** Ingestion.
- Eyes** Avoid contact with eyes.
- Skin** Avoid contact with the skin.
- Inhalation** Do not breathe dust/fume/gas/mist/vapors/spray.
- Ingestion** Harmful if swallowed. Do not ingest.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
1,2-Dibromo-2,4-Dicyanobutane	35691-65-7	80 - 90
2,2-dibromo-3-nitrilopropionamide	10222-01-2	10 - 20

4. First Aid Measures

First aid procedures

- Eye contact** Get medical attention if irritation develops or persists. Rinse with water.



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Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Ingestion

If swallowed, seek medical advice immediately and show this container or label. Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Never give anything by mouth to a victim who is unconscious or is having convulsions.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties

Not a fire hazard. The product is not flammable.

Extinguishing media

Suitable extinguishing media

Large Fires: Water. Water spray, fog or regular foam. Dry chemical, CO₂, water spray or regular foam.

Small Fires:

Fire fighting equipment/instructions

Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

Specific methods

Use water spray to cool unopened containers. In the event of fire, cool tanks with water spray.

6. Accidental Release Measures

Personal precautions

Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods for containment

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Do not breathe vapors or spray mist. Use only with adequate ventilation. Wash hands after handling and before eating. Avoid release to the environment. Handle and open container with care. Wash thoroughly after handling.

Storage

Keep container tightly closed. Keep in a well-ventilated place. Keep out of the reach of children. Use care in handling/storage.



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8. Exposure Controls / Personal Protection

Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye / face protection	Wear chemical goggles.
Skin protection	Protective gloves. Impervious gloves.
Respiratory protection	Wear positive pressure self-contained breathing apparatus (SCBA).
General hygiene considerations	Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling and before eating.

9. Physical & Chemical Properties

Appearance	Powder.
Physical state	Liquid.
Form	Liquid.
Color	Off-white - tan
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	Not available.
Relative density	Not available.
Flash point	N.A
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Not available.
Incompatible materials	None known.
Hazardous decomposition products	Not available.



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11. Toxicological Information

Toxicological data

Product

BIO CLEAR 750 (Mixture)

Test Results

Acute Dermal LD50 Rat: 3861 mg/kg estimated
Acute Inhalation LC50 Rat: 6 mg/l/4h estimated
Acute Oral LD50 Rat: 365 mg/kg estimated

Components

2,2-dibromo-3-nitripropionamide (10222-01-2)

Acute Dermal LD50 Rabbit: > 2000 mg/kg

Acute Inhalation LC50 Rat: 0.24 mg/l

Acute Oral LD50 Rat: 167 mg/kg

1,2-Dibromo-2,4-Dicyanobutane (35691-65-7)

Acute Dermal LD50 Rabbit: > 5000 mg/kg

Acute Inhalation LC50 Rat: 5.09 mg/l/4h

Acute Oral LD50 Rat: 515 mg/kg

12. Ecological Information

Ecotoxicological data

Product

BIO CLEAR 750 (Mixture)

Test Results

LC50 Fish: 2.1875 mg/L 96 Hours estimated

Components

Test Results

2,2-dibromo-3-nitripropionamide (10222-01-2)

EC50 Algae: 0.3 mg/l

LC50 Rainbow Trout: 0.71 - 2 mg/l

LC50 Water Flea: 0.66 mg/l

1,2-Dibromo-2,4-Dicyanobutane (35691-65-7)

EC50 Algae: 0.15 mg/l 72 Hours

EC50 Water Flea: 6.16 mg/l 48 Hours

LC50 Blue crab: > 1 mg/l 96 Hours

LC50 Bluegill sunfish: 4.09 mg/l 96 Hours

LC50 Fish: 96 Hours

LC50 mysidopsis bahia: 2.7 mg/l 96 Hours

LC50 Rainbow Trout: 1.75 mg/l 96 Hours

LC50 Water Flea: 2.2 mg/l 48 Hours

13. Disposal Considerations

Disposal instructions

Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.20-24). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.



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TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)

Not regulated

DEA Essential Chemical Code Number

Not regulated

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

DEA Exempt Chemical Mixtures Code Number

Not regulated

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

1,2-Dibromo-2,4-Dicyanobutane (CAS 35691-65-7) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

1,2-Dibromo-2,4-Dicyanobutane (CAS 35691-65-7) Listed.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

Inventory status

Country(s) or region

Inventory name

On inventory (yes/no)*

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes



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Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - New Jersey RTK - Substances: Listed substance

1,2-Dibromo-2,4-Dicyanobutane (CAS 35691-65-7)	Listed.
2,2-dibromo-3-nitrilopropionamide (CAS 10222-01-2)	Listed.

16. Other Information

HMIS® ratings Health: 2
Flammability: 0
Physical hazard: 0

NFPA ratings Health: 2
Flammability: 0
Instability: 0

Issue date Not available.