



SAFETY DATA SHEET

Revision 01/21/2015

Algatec® - Green, Yellow and Black Algaecide

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: #10064
Product Name: Algatec® - Green, Yellow and Black Algaecide
Recommended use: Swimming pool water treatment
Restrictions on use or sale: None
Company Name: EasyCare Products USA, div. of McGrayel Company Inc. **Phone Number:**
 5361 S. Villa Avenue (559) 299-7660
 Fresno, CA 93725 (800) 289-7660 (US only)
Website: www.easycarewater.com **Email:** customer services@mcgrayel.com
Emergency Contact: Jeanette De La Rosa / Marvin J. Rezac

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Aquatic Toxicity (Acute), Category 1



GHS Regulations: H302- Harmful if swallowed.
 H400 - Very toxic to aquatic life.
GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
 P270 - Do not drink, eat or smoke when using this product.
 P273 - Avoid release to the environment.
GHS Response Phrases: P301 + 312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
 P330 - Rinse mouth.
 P391 - Collect spillage.
GHS Storage and Disposal Phrases: P501 - Dispose of contents / container to regulatory requirements.

Hazardous Rating System:

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PPE	B

HMIS

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.
Potential Health Effects (Acute and Chronic): Chronic: None
Inhalation: Prolonged inhalation may be harmful. Inhalation may be harmful.
Skin Contact: Prolonged or repeated skin contact may cause irritation.
Eye Contact: Contact may cause eye irritation.
Ingestion: Harmful is swallowed. If medical advise is needed, have product container or label at hand.



SAFETY DATA SHEET

Revision 01/21/2015

Algatec® - Green, Yellow and Black Algaecide

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
31512-74-0	Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl dichloride]	30.0 %	TR1650000
7732-18-5	Water	70.0 %	ZC0110000

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. IF NOT BREATHING, call 911 or an ambulance, then give artificial respiration.

In Case of Skin Contact:

Wash with soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs, seek medical advice / attention.

In Case of Eye Contact:

Hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion:

If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Note to Physician:

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt:

> 210 F (100.0 C)

Method Used:

Cleveland Open Cup

Explosive Limits:

LEL: No data

UEL: Not data

Auto ignition Pt:

NA

Suitable Extinguishing Media:

Use extinguishing agent suitable for type of surrounding fire.

Fire Fighting Instructions:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA / NIOSH (approved or equivalent), and full protective gear. Material will not burn.

Flammable Properties and Hazards:

No data available.

6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions:

Avoid release to the environment. This product is toxic to fish and aquatic organisms. Do not discharge into effluent containing this product into lakes, streams, ponds or estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharging. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance call your State Water Board Authority or Regional Office of the EPA.

Steps To Be Taken In Case Material Is Released Or Spilled:

Use proper personal protective equipment as indicated in Section 8.

Spills / Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.



SAFETY DATA SHEET

Revision 01/21/2015

Algatec® - Green, Yellow and Black Algaeicide

7. HANDLING AND STORAGE

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
31512-74-0	Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl dichloride]	30.0 %	TR1650000
7732-18-5	Water	70.0 %	ZC0110000

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other limits
31512-74-0	Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl dichloride]	No data	No data	No data
7732-18-5	Water	No data	No data	No data
Respiratory Equipment (Specify Type):		Respirator protection is not normally required.		
Eye Protection:		Safety glasses.		
Protective Gloves:		Normally not required.		
Other Protective Clothing:		Clothes to prevent skin contact. Protective garments not normally required.		
Engineering Controls:		There are no special ventilation requirements.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
Appearance and Odor	Dark blue color. Mild odor.		
Melting Point:	No data.		
Boiling Point:	210 F		
Auto Ignition Point:	N/A		
Flash Point:	> 210 F (100.0 C) Method Used: Cleveland Open Cup		
Explosive Limits:	LEL: No data.	UEL: No data.	
Specific Gravity (water = 1)	1.030		
Vapor Pressure (vs. Air or mm Hg):	No data.		
Evaporation Rate:	No data.		
Solubility in Water:	Soluble		
Viscosity:	< 125 CPS		
pH:	6.0 - 7.0		
Percent Volatile:	No data.		

10.0 STABILITY AND REACTIVITY

Stability:	Unstable <input type="checkbox"/>	Stable <input checked="" type="checkbox"/>
Conditions To Avoid - Instability:	No data available.	
Incompatibility - Materials to Avoid:	None.	
Hazardous Decomposition or By products:	None.	
Possibility of Hazardous - Reactions:	Will occur <input type="checkbox"/>	Will not occur <input checked="" type="checkbox"/>
Conditions to Avoid - Hazardous Reactions:	No data available.	



SAFETY DATA SHEET

Revision 01/25/2015

Algatec® - Green, Yellow and Black Algaecide

11.0 TOXICOLOGICAL INFORMATION

Toxicological Information:

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: Mutagenicity: Other Studies: CAS# 31512-74-0

Carcinogenicity / Other Information:

Acute toxicity, LD50, Oral, Rat, 1850. MG/KG: Farm Chemical Handbook, Meister Pub, 37841 Euclid Ave., Willoughby, OH 44094, Vol/p/yr: C326, 1991.

Acute toxicity, LD50, Skin, Species: Rabbit, 2.000 GM/KG; Acute Toxicity Data.

Journal of the American College of Toxicity, Part B., Mary Ann Liebert, Inc.

1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,201, 1992

CAS #7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
31512-74-0	Poly[1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl (dimethylimino)-1,2-ethanediyl dichloride]	n.a	n.a	n.a.	n.a
7732-18-5	Water	n.a	n.a.	n.a.	n.a.

12.0 ECOLOGICAL INFORMATION

No data available.

Results of PBT and vPvB Assessment:

CAS#31512-74-0:

LD50, Fathead Minnow (Pimephales promelas), larva (e), 353.0 UG/L, 48 H, Mortality; The Acute and Chronic Effects of a Polyquaternary Ammonium Molluscicide Poly(Oxyethylene(Dimethylimino)Ethylene-(Dimethyliminio)Ethylene Dichloride), Giltner, J. H. J., and P.C. Baumann, 1991.

LD50, Rainbow Trout (Oncorhynchus mykiss), 44.00 UG/L, 48 H, Mortality, Water temperature: 17 C (62.6 F), pH 7.70, Hardness 40.00 MG/L: Toxicity of Candidate Molluscicides to Zebra Mussels (Dreissena polymorpha) and Selected Nontarget Organisms, Waller, D.L., J.J. Rach, W.G. Cope, L.L. Marking, S.W. Fisher and H. Dabrowska, 1993.

LD50, Halequinfish, Red Rasbora (Rasbora heteromorpha), 660.0 UG/L, 24 H, Mortality, Water temperature : 20 C (68.0 F), pH: 8.10, Hardness: 20 MG/L; Acute Toxicity of 102 Pesticides and Miscellaneous Substances to Fish, Tooby, T.E. Hursey, and J.S. Alabaster, 1975.

LD50, Channel Catfish (Lctalurus punctatus), 3350, UG/L, 48 H, Mortality, Water temperature: 17 C (62.6 F), pH: 7.70, Hardness: 40.00 MG/L; Toxicity of Candidate Molluscicides to Zebra Mussels (Dreissena polymorpha) and Selected Nontarget Organisms, Waller, D.L., J.J. Rach, W.G. Cope, L.L. Marking, S.W. Fisher and H. Dabrowska, 1993.

LD50, Water Flea (Ceriodaphnia dubia), neonate, 218.0 UG/L, 48 H, Mortality; The Acute and Chronic Effects of a Polyquaternary Ammonium Molluscicide Poly(Oxyethylene(Dimethylimino)Ethylene-(Dimethyliminio)Ethylene Dichloride), Giltner, J. H. J., and P.C. Baumann, 1991.



SAFETY DATA SHEET

Revision 01/25/2015

Algatec® - Green, Yellow and Black Algaecide

13.0 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
 RCRA U-Series: None listed.

Discarded product, as sold, would not be considered a RCRA Hazardous Waste. Empty containers retain product residue (liquid and/or vapor) and can be dangerous.

14.0 TRANSPORT INFORMATION

GHS Classification: Acute toxicity: Oral, Category 4 - Warning! Harmful if swallowed.
 Aquatic Toxicity (Acute), Category 1 - Warning! Very toxic to aquatic life.

Land Transport (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.
DOT Hazardous Class: None.
UN/NA Number: None.

Land Transport (Canadian TDG):

TGD Shipping Name: Not regulated as a hazardous material.

Land Transport (European ADR/RID):

ADR/RID Shipping Name: Not regulated as a hazardous material.

Air Transport (ICAO/IATA):

ICAO/IATA Shipping Name: Non-hazardous for air transport.

15.0 REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) List

CAS#	Hazardous Components (Chemical Name)	S.302 (EHS)	S.304 (RQ)	S.313 (TRI)
31512-74-0	Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl dichloride]	No	No	No
7732-18-5	Water	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

Yes No Acute (immediate) Health Hazard
 Yes No Chronic (delayed) Health Hazard
 Yes No Fire Hazard
 Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard



SAFETY DATA SHEET

Revision 01/25/2015

Algatec® - Green, Yellow and Black Algaecide

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
31512-74-0	Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl(dimethylininio)-1,2-ethanediyl dichloride]	CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP 65: No
7732-18-5	Water	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - Inventory: CA PROP 65: No
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
31512-74-0	Poly[oxy-1,2-ethanediyl(dimethyliminio)-1,2-ethanediyl(dimethylininio)-1,2-ethanediyl dichloride]	Canadian DSL: No; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: No; China IECSS: Yes; Japan ENCS: No; Korea ECL: Yes; - KE-28990; Philippines ICCS: No; Taiwan TCSCA: Yes; REACH: Yes - (P)
7732-18-5	Water	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: No; China IECSS: Yes; Japan ENCS: Yes; Korea ECL: Yes; - KE-28990; Philippines ICCS: Yes; Taiwan TCSCA: Yes; REACH: Yes - (P)

16.0 OTHER INFORMATION

Revised date: 01/25/2015
 Additional information about this product: No other data available

Company policy or disclaimer: **Manufacturer Disclaimer Notice: We believe that the information contained on this Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily either all-inclusive or fully adequate in every circumstance. Also, these suggestions should not be confused with or followed in violation of applicable laws, regulations, rules or insurance requirements.**

NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.