



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Algae Clear 60
Product use Algicide

Supplier Dazzle c/o Backyard Brands Inc.
BACKYARD BRANDS • 132 Denison Street,
MARKHAM, ONTARIO L3R 1B6, CANADA • 1-866-875-0012

24 HR. EMERGENCY TELEPHONE NUMBERS
Poison Control Center (Medical): (877) 800 - 5553
CANUTEC (Canadian Transportation): (613) 996 - 6666
CHEMTREC (US Transportation): (800) 424 - 9300

NFPA RATING:

HEALTH	1
FIRE	1
REACTIVITY	0

HMIS RATING:

HEALTH:	/	1
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

2. Hazards Identification

POTENTIAL HEALTH EFFECTS

ROUTES OF EXPOSURE: Eye, Skin Contact, Inhalation

EFFECTS FROM ACUTE EXPOSURE:

Eye exposure: May cause a mild irritation. Effects may vary depending on the length of exposure, solution concentration, and first aid measures.

Skin exposure: May cause a mild irritation. Effects may vary depending on the length of exposure, solution concentration, and first aid measures.

Inhalation: May cause irritation of mucous membranes and lungs.

Ingestion: Ingestion is not expected to be a primary route of exposure.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
1,2-ethanediamine,N,N,N',N',-tetramethyl, polymer with 1,1'-oxybis[2-chloroethane]	31075-24-8	40-70

The balance of the components are not hazardous according to WHMIS classifications and are not listed on the Ingredient Disclosure List.

4. First Aid Measures

EYE EXPOSURE: No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If irritation persists, obtain medical advice.

SKIN EXPOSURE: No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed. If irritation persists, obtain medical advice.

INHALATION: If symptoms are experienced remove sources of contamination or move victim to fresh air and obtain medical advice.

INGESTION: If irritation or discomfort occur, obtain medical advice immediately

5. Fire Fighting Measures

FIRE AND EXPLOSION HAZARDS

FLASH POINT & METHOD: > 100 °C (Tag Closed Cup)

AUTO-IGNITION TEMPERATURE: Not available

UPPER FLAMMABLE LIMIT (% vol. in air): Not available

LOWER FLAMMABLE LIMIT (% vol. in air): Not available

FLAMMABILITY CONDITIONS: Will not burn unless water has evaporated.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide may be released on burning.

EXTINGUISHING MEDIA: Use water spray to cool fire exposed surfaces and to protect personnel. Water fog, carbon dioxide, foam or dry chemical may be used to extinguish fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved self-contained breathing apparatus (such as "Scott Air-Pak"), and full protective gear. Isolate "fuel" supply from fire.

EXPLOSION (Sensitivity to Mechanical Impact): None known.

EXPLOSION (Sensitivity to Static Discharge): None known.

6. Accidental Release Measures

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the "Handling Procedures and Equipment" section. Check the "Fire and Explosion Hazards" section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of affected areas. Initially minimize area affected by the spill or leak. Block any potential routes to water systems. Place in a properly labeled container for later disposal. Larger spills may require a vacuum.

7. Handling and Storage

Handling: Do not handle unless the safety precautions have been read and understood. Avoid skin and eye contact. Avoid inhalation of dust or vapours. Do not puncture, drag or slide containers. Do not smoke in any chemical handling or storage area. Wash hands before eating.

Storage: Store in a dry well-ventilated location. Protect from freezing. Keep containers tightly closed. Store away from incompatible materials and ignition sources.

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	<u>EXPOSURE LIMITS</u>					
	<u>OSHA PEL</u>		ACGIB TLV		<u>SUPPLIER OEL</u>	
	ppm	<u>mg/m³</u>	ppm	mg/m ³	ppm	mg/m ³
1,2-ethanediamine,N,N,N',N' , -tetramethyl, polymer with 1,1'-oxybis[2-chloroethane]		N/E		N/E		N/E

The balance of the components are not hazardous according to WHMIS classifications and are not listed on the Ingredient Disclosure List.

ENGINEERING CONTROLS:

General mechanical ventilation system is adequate. However, local exhaust system is preferred to maintain airborne concentrations below the recommended occupational exposure limits, whenever misting conditions are present or the material is used in a confined space.

PERSONAL PROTECTIVE EQUIPMENT:

Hands: Gloves required.

Eyes: Safety glasses required.

Respiratory: If misting can occur, a NIOSH approved respirator is recommended. The local EHS (Environmental Health and Safety) professional must identify and evaluate the respiratory hazards in the workplace. Based on this evaluation, the EHS professional must select the appropriate respiratory type and/or filter as required.

Body Protective Clothing: Safety protective clothing such as work coveralls or long sleeve shirt and trousers is required.

Footwear: Chemical resistant protective footwear required.

Other: An emergency shower complete with eye-wash fountain is strongly recommended.

9. Physical & Chemical Properties

PHYSICAL STATE: Liquid

ODOUR: Mild

APPEARANCE: Clear, amber to dark brown

pH (neat): 6-8

pH (100 ppm in water): 6-7

VAPOUR PRESSURE: Not Available

VAPOUR DENSITY (Air=1): Not Available

EVAPORATION RATE: Not Available

BOILING POINT: >100°C

FREEZING/MELTING POINT: -16°C

SOLUBILITY: Completely soluble in water

OIL/WATER PARTITION COEFFICIENT: Not available

Note: The physical data presented above are typical values and should not be construed as specifications.

10. Chemical Stability & Reactivity Information

CHEMICAL STABILITY: Stable under normal conditions of use and storage.

CONDITIONS OF UNSTABILITY: None known

INCOMPATIBILITY WITH OTHER SUBSTANCES: Anionic polymers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide may be released on burning.

11. Toxicological Information

Ingredient (•)	Acute Oral LD50 (mg/kg)	Acute Dermal LD50 (mg/kg)	Acute Inhalation LC50 (ppm)
1,2-ethanediamine,N,N,N',N' ,tetramethyl, polymer with 1,1'-oxybis[2-chloroethane]	N/A	N/A	N/A

The balance of the components are not hazardous according to WHMIS classifications and are not listed on the Ingredient Disclosure List.

EFFECTS FROM CHRONIC EXPOSURE:

The effects from chronic exposure to this product have not been fully evaluated.

ACUTE EFFECTS (Exposure Limits):

- Acute Oral LOSO: 1951 mg/kg (male rat)
- Acute Dermal LOSO: > 2000 mg/kg (rabbit)
- Acute Inhalation LCSO: 2.9 mg/L (rat, 4 hrs)

IRRITANT EFFECTS: May cause a mild irritation to the eyes and skin.

SENSITIZATION EFFECTS: Not a sensitizer.

CARCINOGENIC POTENTIAL: Not listed in any of OSHA Standards Section 1910.1200 sources as carcinogenic.

REPRODUCTIVE TOXICITY: None known.

TERATOGENICITY: None known.

MUTAGENICITY: None known.

SYNERGISTIC EFFECTS: None known.

12 Ecological Information

ECOTOXICOLOGICAL INFORMATION: No data at this time.

ENVIRONMENTAL FATE: No data at this time.

13 Disposal Considerations

Dispose of unused, uncontaminated product in accordance with all municipal, provincial or federal regulations.

14 Transport Information

DOT (DEPARTMENT OF TRANSPORTATION): Not regulated under DOT CANADA
TRANSPORT OF DANGEROUS GOODS: Not regulated under TOG.

15 Regulatory Information

Pest Control Products Act: REGISTRATION NUMBER: 29181

U.S. FDA REGULATIONS: FDA (21 CFR) Section(s):

This product is allowed under the following FDA (21 CFR) section(s): 176.170. For use only to improve dry strength of paper and paperboard and as a retention and drainage aid employed prior to the sheet forming operation in the manufacture of paper and paperboard and limited to use at a level not to exceed 0.1 percent by weight of the finished dry paper and paperboard fibers.

WHMIS CLASSIFICATION:

Not applicable. This product is regulated by Pest Control Products Act - Health Canada.

DOMESTIC SUBSTANCES LIST (DSL):

Not applicable. This product is regulated by the Pest Control Products Act - Health Canada.

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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