



Effective Date: May 10, 2016

Product #(s) – 66004

## Safety Data Sheet

For Emergency Call:  
CHEM-TEL (800) 255-3924 24 Hour Assistance

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PolyGuard Ultra Algaecide Pool Treatment

**CAS Number:** 68391-01-5 / 64-17-5 / 7732-18-5

**Recommended Uses:** Algaecide

**Company Identification**

Manufacturer's Name: ZECOL COMPANY

Address: 4635 Willow Drive, Medina, MN 55340

Telephone – General Information: (763) 478-3438

### 2. HAZARDS IDENTIFICATION

**Hazard Classes:** Skin Corrosion/Irritation Category 2  
Eye Damage/Irritation Category 2A  
Carcinogenicity Category 1A  
Toxic to Reproduction Category 1A

**Signal Word:** Danger

**Hazard Statements:**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H350 May cause cancer if swallowed.  
H360 May damage fertility and the unborn child, including fetal alcohol syndrome, if swallowed.

**Precautionary Statements:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children,  
P103 Read label before use.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash thoroughly after handling.  
P302 + P352 If ON SKIN: Wash with plenty of water.  
P332 + P313 If skin irritation occurs: Get medical attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation occurs: Get medical attention.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor.

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P501 Disposal: Dispose of contents/container to a specialized waste disposal plant in accordance with local/regional regulations

**Hazard Pictograms:**



**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	Typical Weight Percentage	CAS Number
Alkyl dimethyl benzyl ammonium chloride (C12-18)	2-2.5%	68391-01-5
Ethanol	<1%	64-17-5
Water	97-98%	7732-18-5

**4. FIRST AID**

**Eyes:** For direct contact, remove contact lenses if present and easy to do so. Immediately hold eyelids apart and flush the affects eye(s) with clean water for at least 15 minutes. Seek immediate medical attention.

**Skin:** Remove contaminated shoes and clothing and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops, seek medical attention. Wash contaminated clothing before reuse.

**Inhalation:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with head down and do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to by physician or poison center.

**Medical Conditions:** Conditions which may be aggravated by exposure skin disorders.

**5. FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use material that is appropriate for the surrounding fire.

**Specific Hazards:** None known.

**Hazardous Combustion Products:** None anticipated.



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**Special Firefighting Procedures:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Cool equipment exposed to fire with water, if it can be done with minimal risk.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** None anticipated

**Environmental Precautions:** Stop spill/release if it can be done with minimal risk. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

**Methods for Containment and Clean-Up:** Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand, earth or other non-combustible material, and place in suitable container for disposal.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Use good personal hygiene practice.

**Conditions for Safe Storage:** Store only in approved containers. Protect container(s) against physical damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
Alkyl dimethyl benzyl ammonium Chloride	None	None	None	None
Ethanol	---	1000 ppm	1000 ppm	---

**Engineering Controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required.

### Specific Personal Protective Equipment

**Eye/Face Protection:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation or injury. Depending on conditions of use, a face shield may be necessary.

The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Depending on exposure and use conditions, additional protection may be necessary to



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prevent skin contact including use of items such as chemical resistant boots, aprons, arm covers, hoods, coveralls or encapsulated suits.

**Respiratory Protection:** Respiratory protection is not usually required.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Air-purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration as directed by regulation or the manufacturer's instructions, in oxygen deficient (less than 19.5% oxygen) situations or under conditions that are immediately dangerous to life and health (IDLH).

Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Other Protective Equipment:** A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

**Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.**

## 9. PHYSICAL AND CHEMICAL PROPERTIES (approximate values)

**Appearance:** Clear, violet liquid  
**Odor:** Mild  
**Odor threshold:** No data  
**pH:** Not applicable  
**Melting/Freezing Point:** 0°C / 32°F  
**Boiling point (at 1 atm):** 100°C / 212 °F  
**Flash Point:** Non-flammable  
**Auto-ignition Temperature:** Non-flammable  
**Evaporation rate (butyl acetate = 1):** No data  
**Flammability (solid, gas):** Not applicable  
**Explosive Limits:** Non-flammable  
**Vapor Pressure:** No data  
**Vapor Density (air = 1):** No data  
**Specific gravity (H<sub>2</sub>O = 1):** ~1  
**Solubility in water:** Soluble  
**Partition Coefficient:** No data  
**Decomposition Temperature:** No data  
**Viscosity:** No data

## 10. STABILITY AND REACTIVITY

**Stability (thermal, light, etc.):** Stable under normal conditions of storage and handling.

**Conditions to Avoid:** None known



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**Incompatibility (materials to avoid):** Avoid contact with oxidizers and anionic surfactants.

**Hazardous Decomposition Products:** Decomposition products can include oxides of carbon and oxides of nitrogen

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Product/Ingredient Name	Result	Species	Dose
Algaecide Pool Treatment	LD50 Oral	Unknown	> 5 g/kg (estimate)
	LD50 Dermal	Unknown	> 5 g/kg (estimate)
Alkyl dimethyl benzyl ammonium chloride	LD50 Oral	Unknown	>3.35 g/kg
	LD50 Dermal	Unknown	735 mg/kg
Ethanol	LD50 Oral	Rat	10.5 g/kg
	LC50 Inhalation (vapor)	Rat	133.8 mg/l (vapor)-4hr

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Signs and Symptoms:** High concentrations can cause irritation of nose and throat, breathing difficulties, headache, dizziness and drowsiness. Ingestion can cause irritation of the digestive tract, nausea, vomiting, and diarrhea.

**Skin Sensitization:** None reported

**Respiratory Sensitization:** None reported

**Germ Cell Mutagenicity:** All components >0.1% are NOT classified as category 1 germ cell mutagens or >1.0 for category 2 germ cell mutagens.

**Carcinogenicity:** Ingestion of alcoholic beverages has been classified by NTP and IARC as carcinogenic to humans (Category 1A). Occupational exposures to ethanol, a minor component, and exposures other than by ingestion (i.e., dermal and inhalation) have not been associated with cancer in humans. This material is not listed by NTP, IARC or OSHA.

**Reproductive Toxicity:** Adverse reproductive effects are not anticipated from inhalation or dermal exposure. Excessive consumption of alcoholic beverages during pregnancy has been associated with effects on the developing fetus referred to collectively as the fetal alcohol syndrome. The effects most frequently manifested include psychomotor dysfunction, growth retardation and a characteristic cluster of facial anomalies. It also affects the reproductive system including reduced sperm count and motility and loss of libido in men, abnormal menstrual function, and decreased plasma estradiol and progesterone levels in women.

**Specific Target Organ Toxicity (Single Exposure):** None known.

**Specific Target Organ Toxicity (Repeated Exposure):** There is insufficient information available to conclude that isopropyl alcohol causes target organ effects from repeated exposure.



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## 12. ECOLOGICAL INFORMATION

**Toxicity:** Material is practically non-toxic to aquatic organisms on an acute basis.

Ingredient Name	Result	Species	Exposure
Alkyl dimethyl benzyl ammonium chloride	No data	----	----
Ethanol	Acute LC50 = 14.2 g/l Fresh Water Acute LC50 > 100 mg/l Fresh Water	Fish Invertebrate	96 hours 96 hours

**Persistence and Degradability:** This material is expected to be biodegradable.

**Bioaccumulative Potential:** Risk of bioaccumulation of this material is expected to be low.

**Mobility in Soil:** No data.

**Other Adverse Effects:** None known

## 13. DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

Recycle wherever possible. Large volumes may be suitable for re-distillation or, if contaminated, incinerated. Can be disposed of in a sewage treatment facility.

This material, if discarded as produced, would not be a federally regulated RCRA “listed” or characteristic hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

## 14. TRANSPORT INFORMATION

**DOT/TDG Proper Shipping Name:** Limited Quantity

**DOT/TDG Identification Number:** Not applicable

**DOT/TDG Hazard Class:** Not applicable

**DOT/TDG Packing Group:** Not applicable

**ERG Guide Number:** Not applicable

**Marine Pollutant:** No

## 15. REGULATORY INFORMATION

**TSCA:** All components are listed on the TSCA inventory.

**DSL:** All components are listed on the DSL inventory.

**OSHA (Occupational Safety and Health Administration):** This material is considered to be hazardous as defined by the OSHA Hazard Communication Standard.



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This material has not been identified as a carcinogen by NTP, IARC or OSHA

**CERCLA/SARA – Section 302 Extremely Hazardous Substances and TPQ (in pounds):** This material does NOT contain chemicals subject to the reporting requirements of SARA 302 and 40 CFR 355 Appendix A and B.

**EPA (CERCLA) Reportable Quantity (in pounds):** This material does NOT contain chemicals subject to the reporting requirements of 40 CFR 302.4.

**CERCLA/SARA - Sections 311/312 (Title III Hazard Categories):**  
Acute: Yes Chronic: Yes Fire: No Reactivity: No

**CERCLA/SARA – Section 313 and 40 CFR 372:** This material does NOT contain chemicals subject to the reporting requirements of SARA 313 and SARA Title III and 40 CFR:.

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** This material contains detectable chemicals known to the State of California to cause cancer and/or reproductive toxicity.

Component	Concentration	Effect
Ethanol	<1%	Developmental

**Canada:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.

WHMIS Hazard Class: D2A, D2B

**16. OTHER INFORMATION**

Issue Date: May 10, 2016  
Previous Issue Date: June 1, 2015  
Change: Updated Sec. 14

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