

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE
USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: 1-800-424-9300 (OUTSIDE
USA: 1-703-527-3887)
FOR ALL SDS QUESTIONS & REQUESTS, CALL: 1-949-474-7707

PRODUCT NAME: **All Clear® All Purpose Algaecide**
EPA Registration Number: 10324-87-09215

1. PRODUCT AND COMPANY IDENTIFICATION

Supplier Aqua Tri® 17872 Mitchell N. Irvine, CA 92614-6034 USA	REVISION DATE: 11/02/2010 SUPERCEDES: 12/07/2005
Telephone: +19494747707 Telefax: +19494747024 Web: WWW.ALLCLEAR.COM	SDS Number: 000000012488 SYNONYMS: CHEMICAL FAMILY: None DESCRIPTION / USE: None established FORMULA: None established

2. HAZARDS IDENTIFICATION

OSHA Hazard
Classification:

Corrosive, Severe respiratory irritant, Combustible

Routes of Entry:	Eyes Skin Inhalation Ingestion
Chemical Interactions:	No known interactions
Medical Conditions Aggravated:	Asthma, Respiratory disorders

Human Threshold Response Data

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

Hazardous Materials Identification System / National Fire Protection Association Classifications

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	3	2	0	
NFPA	3	2	0	

Immediate (Acute) Health Effects

Inhalation Toxicity:	Inhalation of this material in vapor form is irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract which can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations may result in permanent lung damage.
Skin Toxicity:	Corrosive to skin
Eye Toxicity:	Corrosive. Burns can occur following exposure. Direct contact may cause impairment of vision, corneal damage and/or blindness. Rinsing of the eye should take place immediately.
Ingestion Toxicity:	May be harmful if swallowed. Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration. Ingestion may cause severe damage to the gastrointestinal tract with the potential to cause perforation.
Acute Target Organ Toxicity:	Eyes, Skin, Respiratory Tract, Gastrointestinal tract

Prolonged (Chronic) Health Effects

Carcinogenicity:	This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.
Reproductive and Developmental Toxicity:	Not known or reported to cause reproductive or developmental toxicity.
Inhalation:	Repeated inhalation exposure may cause impairment of lung function and permanent lung damage.
Skin Contact:	Effects similar to those from acute exposure.
Ingestion:	There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.
Sensitization:	Not expected to be a skin sensitizer.
Chronic Target Organ Toxicity:	None known
Supplemental Health Hazard Information :	No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY	68424-85-1	
ALCOHOL DENAT.	64-17-5	

4. FIRST AID MEASURES

General Advice:	Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Inhalation:	IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Skin Contact:	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye Contact:	IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion:	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA):	Combustible
<u>Flammable Properties</u>	
Flash Point:	54.4 °C
Fire / Explosion Hazards:	May be ignited by open flame. Vapors may form explosive mixture with air. Burning produces noxious and toxic fumes.

Extinguishing Media: Water Carbon dioxide (CO₂) Dry powder Foam
Fire Fighting Instructions: Use water spray to cool unopened containers. In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release:

Keep people away from and upwind of spill/leak.

Water Release:

soluble If the product contaminates rivers and lakes or drains inform respective authorities.

Land Release:

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 contaminate ponds, waterways or ditches with chemical or used container.

Additional Spill Information :

Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing vapors, mist or gas. Keep away from heat and flame.

Storage: Store in a cool dry ventilated location, away from sources of ignition or other incompatible conditions and chemicals. Keep container(s) closed. Do not freeze. Keep out of reach of children.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible., A NIOSH approved air purifying respirator with organic vapor cartridge and N95 particulate filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin Protection : Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Chemical resistant goggles must be worn. Face-shield

Protective Clothing Type: Impervious, Neoprene, Butyl rubber

General Protective Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
ALCOHOL DENAT.	64-17-5	ACGIH	1,000 ppm TWA
ALCOHOL DENAT.	64-17-5	OSHA Z1	1,000 ppm TWA 1,900 mg/m3 TWA
ALCOHOL DENAT.	64-17-5	NIOSH-IDLH	3,300 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Form: No data.

Color: blue

Odor: Benzaldehyde-like

Molecular Weight: None established

Specific Gravity : 0.96

pH : 20 °C
6.0 - 8.0

Boiling Point: no data available

Freezing Point: not applicable

Melting Point:	not applicable
Density:	no data available
Bulk Density:	no data available
Vapor Pressure:	58.7 hPa
	20 °C
Vapor Density:	no data available
Viscosity:	no data available no data available
Solubility in Water:	soluble
Partition coefficient n-octanol/water:	no data available
Evaporation Rate:	no data available
Oxidizing:	None established
Volatiles, % by vol.:	no data available
VOC Content	no data available
HAP Content	Not applicable

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions.
Conditions to Avoid:	Heat, flames and sparks.
Chemical Incompatibility:	Strong oxidizing agents, Reducing agents
Hazardous Decomposition Products:	Hydrogen chloride gas, Carbon oxides, nitrogen oxides (NOx)
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY ALCOHOL DENAT.	LD50 = 426 mg/kg	Rat
	LD50 = 7,060 mg/kg	Rat

Component Animal Toxicology

Dermal LD50 value:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY ALCOHOL DENAT.	No data	
	LD50 Believed to be > 2,000 mg/kg	Rabbit

Component Animal Toxicology

Inhalation LC50 value:

QUATERNARY No data
 AMMONIUM
 COMPOUNDS, BENZYL-
 C12-16-ALKY
 ALCOHOL DENAT. Inhalation LC50 10 h = 20,000 ppm Rat

Product Animal Toxicity

Oral LD50 value: Believed to be approximately 800 mg/kg

Dermal LD50 value: Believed to be > 2,000 mg/kg

Inhalation LC50 No data.

value:

Skin Irritation: Corrosive to skin
 Eye Irritation: Corrosive to eyes
 Skin Sensitization: Not believed to be sensitising to skin.

Subchronic / Chronic May cause respiratory irritation and/or impairment of lung function.
 Toxicity:

Reproductive and Not known or reported to cause reproductive or developmental toxicity.
 Developmental Toxicity:

ALCOHOL DENAT. This chemical has been tested in laboratory animals and developmental and/or teratogenic effects were seen following ingestion.

Mutagenicity: Not known or reported to be mutagenic.
 ALCOHOL DENAT. This product has been tested for mutagenicity. Tests revealed both positive and negative results. Based on the weight of evidence, we judge this product NOT to be a mutagenic hazard.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.
 ALCOHOL DENAT. The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans. The FDA determined that this product is not carcinogenic in laboratory animals.

12. ECOLOGICAL INFORMATION

Overview: No data for product. Individual constituents are as follows:

Ecological Toxicity Values for: ALCOHOL DENAT.

Fathead minnow (<i>Pimephales promelas</i>),	- (nominal, static). 96 h LC50 = 14,700 mg/l
Rainbow trout (<i>Salmo gairdneri</i>),	- (nominal, static). 96 h LC50 = 13,000 mg/l
Brine shrimp	- (nominal, static). 48 h LC50= 25.5 mg/l
Daphnia pulex	- (nominal, static). 18 h LC50= 12,100 mg/l
Daphnia magna,	- (nominal, static). 48 h EC50> 10,000 mg/l
Daphnia magna,	- (nominal, static). 48 h LC50= 9,248 mg/l
Ceriodaphnia dubia	- (nominal, static). 48 h LC50= 8,808 mg/l

13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary : If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.

Disposal Methods : As a hazardous liquid waste it must be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : D001

14. TRANSPORT INFORMATION

Land (US DOT): UN1760 CORROSIVE LIQUID, N.O.S. (QUATERNARY AMMONIUM COMPOUND) 8 III
Water (IMDG): UN1760 CORROSIVE LIQUID, N.O.S., (QUATERNARY AMMONIUM COMPOUND) 8 III MARINE POLLUTANT

Air (IATA): UN1760 CORROSIVE LIQUID, N.O.S., (QUATERNARY AMMONIUM COMPOUND) 8 III
 Emergency Response Guide Number: ERG # 154

Transportation Notes: Under specific circumstances, this product can ship under two transport exceptions, Limited Quantity or Consumer Commodity. See Bill of Lading for proper shipping description. Material is not regulated as a marine pollutant for ground, rail car, or aircraft transportation within the USA if shipped in non bulk packages per marine pollutant exception 49 CFR 171.4(c).

EMS: F-A, S-B

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.
 EPA Pesticide Registration Number: 10324-87-09215

FIFRA Listing of Pesticide Chemicals (40 CFR 180): This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard
 Physical None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302	TPQ (threshold planning quantity)	None established
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Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA	Reportable quantity	None established
ZUS_SAR302	Reportable quantity	None established

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313	De minimis concentration	None established
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Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111

US. EPA Clean Air Act (CAA) Section 111 SOCMI Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)
01 1996
ETHYL ALCOHOL

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP None established

ZUS_CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS #	COMPONENT NAME
64-17-5	Ethanol

ZUSPA_RTK

Pennsylvania: Hazardous substance list
1990-01-01
ETHANOL
hazardous substance

Pennsylvania: Hazardous substance list
1990-01-01
DENATURED ALCOHOL
hazardous substance

Pennsylvania: Hazardous substance list
1989-08-11
ETHANOL

New Jersey:

CAS #	COMPONENT NAME
64-17-5	Ethanol

ZUSNJ_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

ETHYL ALCOHOL ALCOHOL METHYLCARBINOL ETHANOL

Special Health Hazard - Carcinogen, Special Health Hazard - Flammable - Third Degree,
Special Health Hazard - Mutagen, Special Health Hazard - Teratogen

Massachusetts:

CAS #	COMPONENT NAME
64-17-5	Ethanol

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

ETHYL ALCOHOL DENATURED ALCOHOL ETHANOL

Teratogen. Sufficient evidence of teratogenic risk in humans.

California Proposition 65:

CAS #	COMPONENT NAME
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ZUSCA_P65

None established

WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 0.1 Weight percent

805

Ethanol

16. OTHER INFORMATION

SDS REVISION STATUS:

SECTIONS REVISED:

Major References :

First formulated version in SAP.

Available upon request.

THIS SAFETY DATA SHEET (SDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. AQUA TRI® BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS SDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT AQUA TRI® SDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .