

# StarQuat T-8015

### **SECTION 1. IDENTIFICATION**

Product Identifier	StarQuat T-8015
Product Family	quaternary ammonium compound
Manufacturer	StarChem, LLC, 10150 Greenville Highway, Wellford, SC, 29385, EH&S Dept, 1-800-677-3500, www.starchemglobal.com
Emergency Phone No.	Chemtrec, 1-800-424-9300
SDS No.	0581

### **SECTION 2. HAZARD IDENTIFICATION**

#### Classification

Flammable liquid - Category 3; Acute toxicity (Oral) - Category 4; Skin irritation - Category 2; Serious eye damage - Category 1

Label Elements

#### Signal Word: Danger H302 Harmful if swallowed. H226 Flammable liquid and vapour. H315 Causes skin irritation. Causes serious eye damage. H318 Avoid release to the environment. P273 Wear protective gloves/eye protection/face protection. P280 Dispose of contents and container in accordance with local, regional, national and international P501 regulations. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210 Wash hands thoroughly after handling. P264 Do not eat, drink or smoke when using this product. P270 Use only outdoors or in a well-ventilated area. P271 In case of fire: Use to extinguish. P370 + P378 P302 + P352 IF ON SKIN: Wash with plenty of water/ If skin irritation occurs: Get medical advice/attention. P332 + P313 P363 Wash contaminated clothing 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 persists: Get medical advice/attention. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor/

P331 Do NOT induce vomiting.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name		CAS No.	%	Other Identifiers
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Quaternary ammonium compounds, benzyl-C12-C16-alkyldimethyl, chlorides	68424-85-1	75 - 85	
Ethanol	64-17-5	>15	
Water	7732-18-5	<5	
Amines, C12-16-alkyldimethyl	68439-70-3	<1.6	

### **SECTION 4. FIRST-AID MEASURES**

#### **First-aid Measures**

#### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

#### Skin Contact

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention. Wash clothing and shoes before reuse.

#### Eye Contact

In case of contact, flush eyes with plenty of water for at least 15 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Call a physician immediately.

#### Ingestion

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

### **SECTION 5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

Suitable Extinguishing Media

All extinguishing media are suitable.

#### Specific Hazards Arising from the Product

Harmful vapours.

Flammable liquid and vapour. Releases vapour that can form explosive mixture with air.

#### **Special Protective Equipment and Precautions for Fire-fighters**

Wear a self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Handle in accordance with good industrial hygiene and safety practice.

#### **Environmental Precautions**

Avoid release to the environment. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

#### Methods and Materials for Containment and Cleaning Up

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Clean up any spills as soon as possible, using an absorbent material to collect it. Absorb and/orcontain spill with inert material, then place in suitable container.

### SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling Storage Period

Not Established

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Handling/Storage Precautions

Keep away from heat, sparks and open flames. Ground and bond containers and equipment before transferring to avoid static sparks. Avoid inhalation of vapour or mist. Avoid contact with eyes. Avoid contact with skin or clothing. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing. Stir before using. Conditions for Safe Storage

Store tightly closed in a dry, cool and well-ventilated place. Protect from freezing.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ethyl alcohol (64-17-5) ACGIH TWA 200 ppm ACGIH STEL 400 ppm NIOSH IDLH IDLH 2000 ppm NIOSH STEL 500 ppm; 1225 mg/m<sup>3</sup> NIOSH TWA 400 ppm; 980 mg/m<sup>3</sup> OSHA PEL TWA 400 ppm; 980 mg/m<sup>3</sup>

Industrial Hygiene/Ventilation Measures

General dilution and local exhaust as necessary to control airborne vapours, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination. Curing ovens must be ventilated to prevent the build up of explosive atmospheres and to prevent off gases from entering the work place.

**Respiratory Protection** 

The use of a positive pressure supplied air respirator is mandatory when: airborne concentrations are not known; airborne solvent levels are 10 times the appropriate TLV; spraying is performed in a confined space or area with limited ventilation.

Hand Protection

Permeation resistant gloves.

Eye Protection

Chemical resistant goggles must be worn., Chemical safety goggles in combination with a full face shield if a splash hazard exists.

Skin and body protection

Permeation resistant clothing, Gloves, long sleeved shirts and pants.

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties Appearance Clear yellow viscous liquid.

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рН	6.5 - 8.3 (5% solution)
Initial Boiling Point/Range	> 78 °C
Flash Point	97 °F
Relative Density (water = 1)	~ 0.94
Solubility	Soluble in water

### SECTION 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions of use.

#### Chemical Stability

Normally stable.

#### Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Open flames, sparks, static discharge, heat and other ignition sources.

#### **Incompatible Materials**

Oxidizing agents, Acids, Bases.

#### Hazardous Decomposition Products

Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen chloride gas, Nitrogen oxides (NOx).

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Harmful if swallowed.

Ethyl alcohol (64-17-5): LD50, Oral, Rat = 7060 mg/kg Ethyl alcohol (64-17-5): LD50, Dermal, Rat = 19999 mg/kg Ethyl alcohol (64-17-5): LC50 inhalation, Rat (mg/l) = 8001 mg/l (Exposure time: 4 h)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

### **SECTION 12. ECOLOGICAL INFORMATION**

Ethyl alcohol (64-17-5)LC50 fishes13500 mg/l (Exposure time: 96 h -Species: Pimephales promelasEC50 Daphnia 15400 mg/l (Exposure time: 72 h -Species: Daphnia magna)IC50 other aquatic organisms 15000 mg/l (Exposure time: 168 h -Species: Scenedesmus subspicatus).Persistence and Degradability

## No information was located.

No information was located.

**Bioaccumulative Potential** 

No information was located.

### Mobility in Soil

No information was located.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

### Waste Disposal Method

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

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#### **Empty Container Precautions**

Do not heat or cut container with electric or gas torch. Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

### **SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
IATA (Air)	2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE, ETHYL ALCOHOL)	8+3	II
IMO (Marine)	2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE, ETHYL ALCOHOL)	8+3	II
US DOT	2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE, ETHYL ALCOHOL)	8+3	II
Canadian TDG	2920	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (ALKYL DIMETHYLBENZYLAMMONIUM CHLORIDE, ETHYL ALCOHOL)	8+3	II

#### **Special Precautions** Not applicable

#### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15. REGULATORY INFORMATION**

#### Safety, Health and Environmental Regulations

StarQuat T-8015: SARA Section 311/312 Hazard Classes Fire Hazard Immediate (acute) health hazard Delayed (chronic) health hazard.

#### Canada

### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

#### USA

### Toxic Substances Control Act (TSCA) Section 8(b)

Listed on the TSCA Inventory.

### SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 3 Flammability - 3 Instability - 0
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