



**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces- No smoking. Keep container tightly closed

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Do not breathe vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

**Precautionary Statements - Response**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center or doctor/physician if you feel unwell IF SWALLOWED: Rinse Mouth. Do NOT induce vomiting.

IN CASE OF FIRE: Use appropriate media to extinguish. Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor. Specific treatment is urgent (see this label).

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep the container tightly closed. Keep cool. Store locked up.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national and international regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	5- < 10
Octyl decyl dimethyl ammonium chloride	32426-11-2	5- < 10
Alcohol Ethoxylate*	Proprietary*	3- < 5
Didecyl dimethyl ammonium chloride	7173-51-5	3- < 5
Ethanol	64-17-5	3- < 5
Tetra sodium ethylenediamine tetra acetic acid (Na4 EDTA)	64-02-8	3- < 5
Diocetyl dimethyl ammonium chloride	5538-94-3	3- < 5
Other components below reportable levels		60- < 70

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

### First Aid Measures

#### INHALATION

Remove victim to fresh air and rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. If victim inhaled the substance do not use mouth-to-mouth method. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

#### SKIN CONTACT

Take off contaminated clothing immediately. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before use.

#### EYE CONTACT

Flush eyes immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

#### INGESTION

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

#### IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

#### GENERAL INFORMATION

Immediately take off all contaminated clothing. If unwell, seek medical attention. Inform medical personnel of the material(s) involved, take precautions to protect themselves. Show the safety data sheet to the medical physician. Wash contaminated clothing before reuse.

## 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Firefighting equipment/instructions

Do not breathe fumes in case of a fire/explosion. Remove containers from fire area if you can without risk.

#### Specific methods

Use standard firefighting procedures and consider the hazards of other materials involved.

#### General fire hazards

Flammable liquid and vapor

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

Keep unnecessary personnel away. Keep people away from spill/leak. Remove all ignition sources such as flares, sparks, and flames in the immediate area. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors or spray mist. Do not touch containers that have been damaged or spilled material unless appropriate protective clothing is worn. Ventilate closed spaces before entering them. Local authorities should be advised if the spillage cannot be contained. See section 8 of the SDS for personal protection.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters 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 discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Contact your state Water Board or Regional Office of the EPA for guidance.

### Environmental precautions

#### **Environmental precautions**

Avoid release to environment. For all environmental releases inform appropriate managerial or supervisory personnel. If safe to do prevent further leakage or spillage. Avoid discharge into drains, water courses or onto the ground.

### Methods and material for containment and cleaning up

#### **Methods for Containment**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles such as wood, paper, oil, etc. away from spilled material. Take precautionary measures against the static discharge. Only use non-sparking tools. Prevent material from entering drains.

#### **Methods for Clean-Up**

**Large Spills:** Stop the flow of material if only done without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use non-combustible material such as vermiculite, sand or earth to soak up the material and place into a container to dispose later. Following product recovery, flush area with water.

**Small Spills:** Absorb with earth, sand or other non-combustible material and transfer to containers to dispose later. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to the original container to re-use. See section 13 of the SDS for waste disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on Safe Handling**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect product from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. Equipment being used on this product needs to be grounded. Only use non-sparking tools and explosion-proof equipment. Only outdoors or in a well-ventilated area. Avoid contact with skin, eyes or clothing. Do not taste or swallow. Avoid prolonged exposure. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this material. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.  
PESTICIDE STORAGE: Store material in a dry place not lower than 50°F or higher than 120°F. Store lock up. Keep away from heat, sparks and open flame. Use common bonding and grounding techniques to prevent electrostatic charge build-up. Store in a cool, dry place away from direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m <sup>3</sup> 1000 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m <sup>3</sup> 1000 ppm

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

#### Engineering Controls

Explosion-proof general and local exhaust ventilation. Good general ventilation, about 10 air changes per hour should be used. The ventilation rate matched to the conditions. If appropriate use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/Face Protection

Wear eye/face protection. Face-shield. Wear a full-face respirator, if needed.

#### Skin and Body Protection

##### Hand protection

Wear appropriate chemical resistant gloves

##### Other

Wear appropriate chemical resistant clothing.

#### Respiratory Protection

In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary

#### General Hygiene Considerations

Do not smoke when using. Keep food and drink away from product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Wash work clothing and protective equipment routinely to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Color	Yellow
Odor	Bland
Odor Threshold	Not determined

Property	Values	Remarks • Method
pH	Not Available	
Melting Point/Freezing Point	Not Available	
Boiling Point/Boiling Range	Not determined	
Flash Point	130.0 °F (54.4 °C)	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not Available	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not Available	
Vapor Density	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Other information		
Density	8.48 lb/gal	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use, storage and transport.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

No dangerous reaction known under conditions of normal use.

### Conditions to Avoid

Keep away from heat, sparks and open flame and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### Incompatible Materials

Strong oxidizing agents. Anionic surfactants.

### Hazardous Decomposition Products

Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Causes serious eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Inhalation</b>	Fatal if inhaled. May cause damage to organs by inhalation.
<b>Ingestion</b>	Causes digestive tract burns. Harmful if swallowed

**Component Information****Information on physical, chemical and toxicological effects**

**Symptoms** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Information on toxicological effects**

**Acute toxicity** Fatal if inhaled. Harmful if swallowed.  
**Skin corrosion/irritation** Causes severe skin burns and eye damage.  
**Serious eye damage/eye** Causes serious eye damage irritation

**Respiratory or skin sensitization**

**Respiratory sensitization** Not a respiratory sensitizer.  
**Skin sensitization** This product is not expected to cause skin sensitization.  
**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, ACGIH or NTP.

**IARC Monographs. Overall Evaluation of Carcinogenicity** Not listed.  
**US. National Toxicology Program (NTP) Report on Carcinogens** Not listed.  
**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not regulated.  
**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.  
**Specific target organ toxicity** May cause damage to organs.

**Single exposure**

**Specific target organ toxicity repeated exposure** Not applicable.  
**Aspiration hazard** Not likely, due to the form of the product.  
**Chronic effects** Prolonged inhalation may be harmful.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Component Information**

Components	Species	Test Results
Tetra sodium ethylenediamine tetra acetic acid (Na <sub>4</sub> EDTA) (CAS 64-02-8)		
Aquatic Fish	LC50 Bluegill ( <i>Lepomis macrochirus</i> )	472 – 500 mg/l, 96 hours

\*Estimates for product may be based on additional component data not shown.

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Partition coefficient n-octanol / water (log Kow)  
 Ethanol -0.31

**Mobility**

Not determined

**Other Adverse Effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods****Disposal of Wastes**

(For industrial, institutional, health uses) PESTICIDE DISPOSAL – Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Disposal should be in accordance with applicable regional, national and local laws and regulations.

CONTAINER DISPOSAL – Nonrefillable container. Do not reuse or refill this container. After rinsing container, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**Local disposal regulations**

Dispose in accordance with all applicable regulations.

**Hazardous waste code**

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues /unused products** Dispose of in accordance with local and state regulations. Empty containers or liners may have some product residues. This product and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Since emptied container may still retain product residue, follow label warnings after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

<b>UN/ID No</b>	UN2920
<b>Proper Shipping Name</b>	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (QUATERNARY AMMONIUM COMPOUND, Ethanol)
<b>Transport Hazard Class(es)</b>	
Class	8
Subsidiary risk	3
<b>Packing group</b>	II
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**IATA**

<b>UN/ID No</b>	UN2920
<b>Proper Shipping Name</b>	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (QUATERNARY AMMONIUM COMPOUND, Ethanol)
<b>Transport Hazard Class(es)</b>	
Class	8
Subsidiary risk	3



<b>Packing group</b>	II
<b>Environmental hazards</b>	Yes
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

**IMDG**

<b>UN/ID No</b>	UN2920
<b>Proper Shipping Name</b>	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (QUATERNARY AMMONIUM COMPOUND, Ethanol)
<b>Transport Hazard Class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	3
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine Pollutant</b>	Yes
<b>EmS</b>	Not Available
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not established.

**15. REGULATORY INFORMATION****US Federal Regulations**

This product is a U.S. EPA registered pesticide. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**CERCLA (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**US . OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Hazard categories I	Immediate Hazard – Yes
	Delayed Hazard - No
	Fire Hazard - Yes
	Pressure Hazard -No
	Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical**

Yes

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	Not regulated.
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Ethanol (CAS 64-17-5)

Low priority

**FIFRA Information**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**Signal word**

DANGER

**Hazard statement**

Corrosive.  
Causes irreversible eye damage and skin burns.  
May be fatal if absorbed through skin.  
Harmful if swallowed.  
This product is toxic to fish.  
Combustible.

**US state regulations****US New Jersey RTK – Substances: Listed substance**

Ethanol (CAS 64-17-5)

**US Pennsylvania RTK – Hazardous Substances: Listed substance**

Ethanol (CAS 64-17-5)

**US. California Controlled Substances. CA Department of Justice  
(California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK – Substance List**

Ethanol (CAS 64-17-5)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Ethanol (CAS 64-17-5)

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

Subregistrant may elect not to use this warning if it conducts an assessment which determines such ingredient falls below the threshold action level requiring warning under California Proposition 65. Subregistrant does so at its own risk and liability, and hereby agrees to indemnify and hold Stepan harmless for any claim, cause of action, or damages arising from such decision not to warn.

WARNING: This product contains a chemical known to the State of California to cause cancer and Birth defects or other reproductive harm.

**US – California Proposition 65 – CRT : Listed date/Carcinogenic substance**

Acetaldehyde (CAS 75-07-0)

Listed : April 1, 1988

**US – California Proposition 65 – CRT : Listed date/Developmental toxin**

Methanol (CAS 67-56-1)

Listed : March 16, 2012

**International Inventories**

Country (s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory (NZIoC)	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Inventory (TCSI)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the

governing country(s)

## 16. OTHER INFORMATION

**Issue Date:** 01-June-2017  
**Revision Date:** 01-June-2017  
**Revision Note:** New format

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet