



**Precautionary Statements - Prevention**

Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only outdoors or in a well ventilated area. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/ eye protection/face protection. Wear respiratory protection.

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

**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 or doctor/physician

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

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER or doctor/physician

**IF SWALLOWED:** Rinse mouth. Seek medical attention. DO NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up. Keep container tightly closed when not in use. Store in a well ventilated place. KEEP OUT OF REACH OF CHILDREN.

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local / regional / national / international regulations.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Didecyl Dimethyl Ammonium Chloride	7173-51-5	< 5
Dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	< 3

**4. FIRST AID MEASURES**

**First Aid Measures**

- Inhalation** Move to fresh air. If breathing is difficult give oxygen. If symptoms persist, call a physician.
- Eye Contact** Immediately flush with plenty of water. Remove contact lenses and continue flushing with water for 15 minutes. Call a physician immediately.
- Ingestion** Do NOT induce vomiting. Rinse mouth. Call a poison control center or doctor immediately for treatment advice. Never give anything by mouth to an unconscious person.
- Skin Contact** Take off contaminated clothing. Rinse skin with plenty of water (shower). Call a poison control center or doctor for treatment advice. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

**Indication of any Immediate Medical Attention and Special Treatment Needed**

Causes serious eye irritation. Symptoms include stinging, tearing, redness, swelling, and blurred vision.

- Note to Physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Water fog, foam, dry chemical powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**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, gasses hazardous to health may be formed.

**Protective Equipment and Precautions for Firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal Precautions** Immediately evacuate personnel to safe areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors.

**Methods and Material for Containment and Cleaning Up**

**Methods for Containment** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

**Methods for Cleaning Up** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into container for later disposal. Do not flush into surface water or sanitary sewer system. Dispose of the waste material according to local, state and government requirements. Following product recovery, flush area with water.

**7. HANDLING AND STORAGE**

**Precautions for Safe Handling**

**Advice on Safe Handling** Protect material from direct sunlight. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Do not taste or swallow. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation or outdoors. Wash hands thoroughly after handling.

**Conditions for Safe Storage, Including any Incompatibilities**

**Storage Conditions** Store locked up. Keep containers tightly closed in a dry, cool and well ventilated place with a temperature not lower than 50°F or higher than 120°F. Keep away from heat, sparks and open flame. Store away from incompatible materials.

**Incompatible Materials** Incompatible with strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

No occupational exposure limits noted for ingredients more than 1%.

**Appropriate Engineering Controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection** Tight sealing safety goggles, face protection shield.

- Skin and Body Protection**      Wear protective gloves.
  
- Respiratory Protection**      If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied are respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
  
- General Hygiene Considerations**      When using this product do not eat, drink, or smoke. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Mint Scent
<b>Appearance</b>	Green Liquid	<b>Odor Threshold</b>	N/A
<b>Color</b>	Green		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
pH	7.2		
Melting Point/Freezing Point	N/A		
Boiling Point/Boiling Range	N/A		
Flash Point	103°F / 40°C	Tag Closed Cup	
Evaporation Rate	N/A		
Flammability (Solid, Gas)	N/A		
Upper Flammability Limits	N/A		
Lower Flammability Limit	N/A		
Vapor Pressure	N/A		
Vapor Density	N/A		
Specific Gravity	1.00		
Water Solubility	Complete		
Solubility in Other Solvents	N/A		
Partition Coefficient	N/A		
Auto ignition Temperature	N/A		
Decomposition Temperature	N/A		
Viscosity	N/A		
Explosive Properties	N/A		
Oxidizing Properties	N/A		
Density	N/A		
Pour Point	N/A		
VOC Content	< 1		

**10. STABILITY AND REACTIVITY**

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing and storage.

**Conditions to Avoid**

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible Materials**

Strong oxidizing agents.

**Hazardous Decomposition Products**

No hazardous decomposition products are known.

**11. TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

- Inhalation** Not likely, due to the form of the product.
- Eye Contact** Contact with eyes will cause serious eye damage.
- Skin Contact** Contact will cause severe skin burns.
- Ingestion** Harmful if swallowed.

**Component Information**

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Quaternary Ammonium Compounds Mixture	3560	430	

**Information on Physical, Chemical and Toxicological Effects**

- Symptoms** Causes skin irritation and eye serious irritation.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

- Carcinogenicity** No components of this product have been identified as a carcinogen or potential carcinogen by ACGIH, OSHA, IARC or NTP.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Persistence and Degradability**

Readily biodegradable

**Bioaccumulation**

No information available.

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

- Disposal of Wastes** PESTICIDE DISPOSAL – Pesticides wastes are acutely hazardous. Improper disposal of excess pesticide 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.
- Contaminated Packaging** Non-refillable container. Do not reuse or refill container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds After the flow begins to drip. Repeat procedure two more times. Offer for recycling or reconditioning, if available. If not available, puncture and dispose in a sanitary landfill.

**14. TRANSPORT INFORMATION**

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

**DOT**

UN/ID No	2920
Proper Shipping Name	Quaternary Ammonium Chloride, Disinfectant Liquid, N.O.S.
Hazard Class	8
Packing Group	III

**IATA**

UN/ID No	2920
Proper Shipping Name	Quaternary Ammonium Chloride, Disinfectant Liquid, N.O.S.
Hazard Class	8
Packing Group	III

**IMDG**

UN/ID No	2920
Proper Shipping Name	Quaternary Ammonium Chloride, Disinfectant Liquid, N.O.S.
Hazard Class	8
Packing Group	III

**15. REGULATORY INFORMATION****International Inventories**

TSCA	Listed
DSL	Listed

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

**US Federal Regulations**

This product is a pesticide 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.

**SARA 313**

This product does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations**

No ingredients over 1% found on state hazardous substance lists.

**California Proposition 65**

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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<b>16. OTHER INFORMATION</b>
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<u>NFPA</u>	Health Hazards	Flammability	Instability	
	2	0	0	
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	0	B

**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**