



1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: DS-56

Description: Cooling Water Dispersant  
Suggested Use: Industrial Water Treatment  
Restrictions on Use: Do not mix with other industrial chemicals.

Supplier: Advanced Chemical Technology, Inc.  
8728 Utica Avenue  
Rancho Cucamonga, CA 91730

Telephone: 1-909-980-4556 or 1-800-527-9607  
Fax: 1-909-980-9366

Emergency Phone: 1-800-255-3924 (CHEMTEL)

2. HAZARDS IDENTIFICATION

Classification

GHS Classification: Serious Eye Irritation (Category 2A)

GHS Label Elements

Pictogram:



Signal Word: Warning

Hazard Statements: H316: Causes mild skin irritation  
H319: Causes serious eye irritation

Precautionary Statements: P264: Wash hands thoroughly after handling.  
P 273: Avoid release to the environment.  
P280: Wear protective gloves/ protective clothing/ eye protection.  
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 attention/advice.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P501 - Dispose of contents/container to comply with local, state and federal regulations.

HMIS Classification: Health Hazard: 1  
Flammability: 0  
Physical Hazards: 0

NFPA Rating: Health Hazard: 1  
Fire: 0  
Reactivity Hazard: 0

Potential Health Effects



Inhalation: Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.

Skin: Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or occasionally, blistering.

Eyes: Slightly hazardous in case of eye contact (irritant).

Ingestion: Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and diarrhea, and perhaps unconsciousness, or death. Ingestion is not expected to be a primary route of exposure.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Concentration</u>
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]	310-75-24-8	< 30%

Synonyms:

4. FIRST AID MEASURES

If Inhaled: If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin Contact: Take off contaminated clothing and shoes immediately. Flush skin with plenty of water for at least fifteen minutes.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses if able to do so.

If Ingested: Do NOT induce vomiting unless instructed to do so by a physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Flammability Overview: Considered a non-flammable water solution

Flash Point: Not Applicable

Extinguishing Media: Use water-spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Tailor extinguishing media to surrounding fire.

Special Protective Equipment for Firefighters: Wear a self-contained breathing apparatus (SCBA) for firefighting if necessary.

Hazardous Combustion Products: Carbon monoxide may be formed upon burning. Do not mix with other industrial chemicals.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent from entering drains and waterways. Discharge into the environment must be avoided.



Containment and Clean Up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. If assistance is needed call CHEMTEL or emergency services.

7. HANDLING AND STORAGE

Safe Handling: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Always ensure adequate ventilation.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	CAS Number	Exposure Limit	Basis
Poly [oxyethylene(dimethyliminio) ethylene (dimethyliminio) ethylene dichloride]	31075-24-8	Not Established	ACGIH Threshold Value
		Not Established	OSHA PEL

Personal Protective Equipment

Eye Protection: Wear tightly fitting safety goggles or safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH. Have eye-wash stations available where eye contact can occur.

Hand Protection: Handle with chemical-resistant gloves. Gloves must be inspected prior to use. Dispose of contaminated gloves. Wash and dry hands after use.

Skin Protection: Protect skin by wearing pants, close toe shoes and long sleeves. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Safety showers should be located in the work area where skin contact can occur.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full-face respirator with appropriate cartridges. For oxygen deficient atmospheres, use a NIOSH approved air-supplied respirator. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

General Controls: Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid  
Color: Yellow  
Odor: Mild  
Odor Threshold: N/A  
pH: 6.5-7.5



Melting/Freezing Point:	Not Established
Boiling Point:	212° F
Flash Point:	Not Applicable
Evaporation Rate:	1
Flammability (solid, gas):	Not Flammable
Flammability/Explosion Limits:	Not Flammable
Vapor Pressure @ 20°C:	Not Established
Vapor Density:	Not Established
Specific Gravity:	1.075
Density:	Not Established
Solubility in Water:	Miscible
Partition Coefficient:	Not Established
Autoignition Temperature:	Not Established
Decomposition Temperature:	Not Established
Viscosity:	Not Established

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions. Do not store under 50 °F.
Conditions and Materials to Avoid:	Avoid strong acids, caustics, and oxidizing agents.
Hazardous Decomposition Products:	Hazardous decomposition products under fire conditions: Oxides of carbon and phosphorus.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	CAS Number	Test	Toxicity
Poly [oxyethylene(dimethyliminio) ethylene (dimethyliminio) ethylene dichloride]	31075-24-8	Oral LD50 (Rat) LD50	1850 mg/kg (Female) 3690 mg/kg (Male)
		Skin	Not Established
		Inhalation LC50-1H (Rat)	Not Established

Potential Health Effects

Inhalation:	Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.
Skin:	Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or occasionally, blistering.
Eyes:	Slightly hazardous in case of eye contact (irritant).
Ingestion:	Swallowing large quantities causes headaches, nausea, vomiting, stomach cramps, and diarrhea, and perhaps unconsciousness, or death. Ingestion is not expected to be a primary route of exposure.
Signs and Symptoms of Exposure:	Not Established
Chronic Effects of Long-term Exposure:	No data available



Carcinogenicity: Not shown as a carcinogen by OSHA, IARC, or NTP. This product is not considered a carcinogen.

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

Component	CAS Number	Organism	Ecotoxicity
Poly [oxyethylene(dimethyliminio) ethylene (dimethyliminio) ethylene dichloride]	31075-24-8	Not Established	Not Established

Ecological Effects

Persistence and Degradability: Not Established  
Bioaccumulation Potential: Not expected to bio-accumulate  
Mobility in Soil: Not Established  
Other Adverse Effects: Not Established

13. DISPOSAL CONSIDERATIONS

Disposal: Surplus and non-recyclable material should be treated as hazardous waste and be disposed of by a licensed disposal company. Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region. Do not release into sewers or waterways.  
Contaminated Packaging: Dispose of as unused product according to federal, state and local laws.

14. TRANSPORT INFORMATION

DOT Information

Proper Shipping Name: Non-Regulated  
UN Number:  
Hazard Class:  
Packing Group:  
Reportable Quantity (RQ):  
Marine Pollutant: Not Established  
Note:

15. REGULATORY INFORMATION

US Federal

SARA 302 Components: This product does not contain a Section 302 substance subject to Emergency Planning Notification/Threshold Planning Quantities



# Advanced Chemical Technology, Inc.

# DS-56

## SAFETY DATA SHEET

Version 1.0  
Effective Date: 06/01/2015

SARA 311/312 Hazards: Acute Health Hazard  
SARA 313 Components: This product does not contain a Section 304 listed hazardous substance for emergency release notification

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

### European Union

EC Inventory: None Listed

### State Regulations

CA Prop 65: This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins

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## 16. OTHER INFORMATION

SDS Version: 1.0  
Revision Date: 06/01/2015  
Disclaimer: The information contained in this document was carefully compiled and is believed to be accurate. The information represents the present state of our knowledge and is applicable to the product with the regard to appropriate safety precautions. However, it does not represent any guarantee of the properties of the product. Advanced Chemical Technology, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product. It is the responsibility of the purchaser to determine the suitability of the product for their particular purposes. Nothing contained herein shall be construed to be a recommendation to use, or as a license to operate under, or to infringe any existing patents.

For product information call Advanced Chemical Technology, Inc., 1-909-980-4556