

**Revision Date** 25-May-2005

# **1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

DR8620 TOWERCIDE
1839-138-40208 Water Treatment
Drummond American Corporation 600 Corporate Woods Parkway Vernon Hills, IL 60061 (847) 913-9313

Emergency telephone number (888) 426-4851

# **2. HAZARDS IDENTIFICATION**

Emergency Overview Irritant.			
Color Clear	Odor Slight	Form Liquid	
Aggravated Medical Conditions	Pre-existing skin, eye, or respiratory conditions may be aggravated by this product.	exposure to	
Principal Routes of Exposure	Eyes. Skin. Ingestion. Inhalation.		
Potential health effects			
Eyes	Moderately irritating to the eyes. Pain. Tearing. Reddening. Swelling.		
Skin	Moderate irritation. Rash. Redness. Swelling.		
Inhalation	Irritation of the nose or throat. Runny nose. Sore throat. May cause irritrespiratory tract. Coughing. Chest discomfort. Shortness of breath. Ma irritation to the mucous membranes. Reduced lung function. Central net depression.	y cause	
Ingestion	Sore throat. Stomach distress. Ingestion may cause gastrointestinal irr nausea, vomiting and diarrhea.	itation,	

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Ethyl alcohol	64-17-5	1-5
Didecyl dimethyl ammonium chloride	Mixture	10-30

# **4. FIRST AID MEASURES**

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek medical attention if irritation persists.
Skin contact	Remove and wash contaminated clothing before re-use. Wipe excess from skin and flush with water using soap if available. Seek medical attention if irritation persists.
Ingestion	Do not induce vomiting without medical advice. Keep head below hips if vomiting occurs. Vomiting may cause aspiration pneumonia. Call a physician or Poison Control Center immediately.
Inhalation	Remove to fresh air. Provide oxygen or artificial respiration if necessary. Keep warm and quiet. Immediate medical attention is required.

# **5. FIRE FIGHTING MEASURES**

Flash point °C	> 93
Flash point °F	> 200
Method	Tag closed cup
Autoignition temperature °C	No data available
Autoignition temperature °F	No data available
Flammability Limits (% in Air) Upper Lower	No data available No data available

## Suitable extinguishing media

Water fog. Foam. Dry chemical. Carbon dioxide (CO2).

#### **Extinguishing media which must NOT be used for safety reasons** No information available.

### **Special Fire-Fighting Procedures**

Evacuate area of unprotected and unnecessary personnel. Do not enter any enclosed or confined fire space without proper protective equipment. Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressuredemand breathing apparatus and full protective clothing.

### Fire and Explosion Hazards

Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Sensitivity to shock

No information available.

**Sensitivity to static discharge** No information available.

# **6. ACCIDENTAL RELEASE MEASURES**

### Methods for cleaning up

Evacuate area of unprotected and unnecessary personnel. Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Ventilate area to maintain exposure below permissible exposure limits. Use caution as spill may create a slip hazard.

### Clean-up methods - small spill

Soak up excess with absorbent material. Place in non-leaking, tightly sealed container for proper disposal. .

### Clean-up methods - large spill

Shut off source of leak if safe to do so. Dike or dam large spills. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Remove with vacuum trucks or pump to storage vessel.

# 7. HANDLING AND STORAGE

### Handling

Ensure adequate ventilation. Remove all sources of ignition. Heat, flames and sparks. Turn off other sources of ignition prior to use and until all vapors have dissipated. Keep container closed when not in use. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such contents to heat, flames, and other sources of ignition. Thoroughly wash hands and exposed skin after handling.

### Storage

Keep out of the reach of children.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Ethyl alcohol	1000 ppm 1900 mg/m³	-	1000 ppm	-
Didecyl dimethyl ammonium chloride	-	-	-	-

## Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling the product.

## Personal protective equipment

### Other precautions

Avoid contact with skin, eyes and clothing

## **Respiratory protection**

Use NIOSH approved respirator if TLV limit is exceeded.

## Hand protection

Protective gloves.

## Eye protection

Use safety eyewear designed to protect against splash of liquids.

### Skin and body protection

No information available

## **Other Protective Equipment**

A safety shower and eye wash station should be available for emergency use.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Odor pH Vapor pressure Evaporation Rate Water solubility	Liquid Slight No data available No data available < 1 (ether = 1) Soluble in water	Color Odor Threshold Specific Gravity Vapor density VOC Content Partition Coefficient (n-octanol/water)	Clear No information available 0.9839 > 1 (Air=1) 69 gm/ltr No data available
Boiling point/range °F	No data available	Boiling point/range °C	No data available
Melting point/range °F	No data available	Melting point/range °C	No data available
Flash point °F	> 200	Flash point °C	> 93

# **10. STABILITY AND REACTIVITY**

# Stability Stable.

**Conditions to avoid** None known.

Materials to avoid No information available

## Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Unidentifiable organic compounds.

# Polymerization

Will not occur.

# Synergistic Products

No information available.

# **11. TOXICOLOGICAL INFORMATION**

# **Component Information**

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Ethyl alcohol	7060 mg/kg	-	-
64-17-5			
Didecyl dimethyl	-	-	-
ammonium chloride			
Mixture			

## Potential health effects

# Sensitization

No information available.

Mutagenic effects No information available.

**Reproductive toxicity** No information available

Target Organ Effects No information available

# Carcinogenic effects

See table below

**Chronic toxicity** No information available.

**Teratogenic effects** No information available

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Ethyl alcohol	A4 - Not Classifiable as a Human Carcinogen	Not Listed	Not Listed	Not Listed	Not Listed
Didecyl dimethyl ammonium chloride	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

# **12. ECOLOGICAL INFORMATION**

# Aquatic toxicity

Ethyl alcohol

Microtox Data

Photobacterium phosphoreum EC50=34634 mg/L (30 min) Photobacterium phosphoreum EC50=35470 mg/L (5 min)

# **13. DISPOSAL CONSIDERATIONS**

## Waste from residues / unused products

Dispose in accordance with federal, state, and local regulations.

# **14. TRANSPORT INFORMATION**

# DOT

Not Regulated

## TDG

Not Regulated

## IMDG/IMO

Not Regulated

# <u>IATA</u>

Not Regulated

# MEX

Not Regulated

# **15. REGULATORY INFORMATION**

# State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Ethyl alcohol	Listed	Listed	Developmental
Didecyl dimethyl ammonium chloride	Not Listed	Not Listed	Not Listed

# International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Ethyl alcohol	Х	Х	-	Х
Didecyl dimethyl ammonium chloride	-	-	-	-

## CPRC

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

# **16. OTHER INFORMATION**

NFPA	NFPA HMIS		<b>NIS</b>
Health	-	Health	2
Flammability	-	Flammability	1
Reactivity	-	Physical Hazard	0

Reason for revision

No information available.

## Prepared By

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.