

Section 1 Chemical Product and Company Identification

Product name : **DI-256** Neutral Disinfectant Concentrate
Recommended use and Restrictions : DISINFECTANT For Industrial and Professional Use
 Use only for the purpose on the product label.

CHEMICAL CLASS: QUATERNARY DISINFECTANT

Product dilution information : 1/2 ounce per Gallon

Supplier's information **The Deirdre Imus Environmental Health Center[®]**
Address: Hackensack University Medical Center
 Research Building • Room 240A
 30 Prospect Avenue, Hackensack, NJ 07601
 Telephone: 201.336.8159
CABVI CODE: 640.12 **EPA REG NO** 1839-167-83908
CAS# NA / MIXTURE

Section 2 Hazards identification

GHS Classification : **Product AS SOLD**
 ACUTE TOXICITY: ORAL - Category 4
 ACUTE TOXICITY: INHALATION - Category 4
 SKIN CORROSION/IRRITATION - Category 1C
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Signal word : Danger



Hazard statements : Harmful if swallowed or if inhaled.
 Causes severe skin burns and eye damage.

Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated

Product AT USE DILUTION
 ACUTE TOXICITY: SKIN - Category 4
 ACUTE TOXICITY: INHALATION - Category 4
 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

CAUTION



Harmful in contact with skin or if inhaled.
 Causes eye irritation.

Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Section 2 Hazards identification

clothing before reuse. Immediately call a POISON CENTER or 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 physician.

Storage : No other specific measures identified.
Disposal : See section 13 for waste disposal information.
Other hazards : None known.

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

No other specific measures identified.
 See section 13 for waste disposal information.
 None known.

Section 3 Composition/information on ingredients

PRODUCT AS SOLD

Components	CAS #	Percent
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	8.68
Di-(C8-10)-alkyl dimethyl ammonium chlorides	68424-95-3	6.51
Didecyl dimethyl ammonium chloride	7173-51-5	3.255
Diocetyl dimethyl ammonium chloride	5538-94-3	3.255

PRODUCT AT USE DILUTION

Components	CAS #	Percent
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	<1%
Di-(C8-10)-alkyl dimethyl ammonium chlorides	68424-95-3	<1%
Didecyl dimethyl ammonium chloride	7173-51-5	<1%
Diocetyl dimethyl ammonium chloride	5538-94-3	<1%

Section 4 First Aid Measures

PRODUCT AS SOLD

First aid procedures

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician or Poison Control Center immediately. Obtain medical attention and take along these instructions.

Skin contact: For skin contact flush with large amounts of water. If irritation persists get medical attention. Immediately take off all contaminated clothing. Wash clothing separately before reuse.

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: Call a physician or Poison Control Center immediately. Give one or two glasses of water if patient is alert and able to swallow. Seek immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Notes to physician: If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

Product AT USE DILUTION

First aid procedures

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists. Wash with plenty of soap and water. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.

Get medical attention if symptoms occur.

Section 5 Fire-Fighting Measures

Product AS SOLD

Suitable fire extinguishing media: Use water spray, fog or foam.

Specific hazards arising from the chemical Hazardous thermal decomposition products: In a fire or if heated, a pressure increase will occur and the container may burst.

Decomposition products may include the following materials:

carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds, metal oxide/oxides

Specific fire-fighting methods: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental Release Measures

Product AS SOLD

Personal precautions: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8).

Do not touch or walk through spilled material.

Environmental Precautions: Avoid contact of spilled material and Run-off with soil and surface waterways.

Methods for Cleaning up: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/ neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container.

Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and run-off with soil and surface waterways.

Use a water rinse for final clean-up.

Section 7 Handling and Storage

Product AS SOLD

Handling: Do not ingest. Do not get in eyes or on skin or clothing.

Do not breathe vapor or mist. Use only with adequate ventilation.

Wash thoroughly after handling.

Storage: Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 50°C

Product AT USE DILUTION

Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed.

Section 8 Exposure controls/Personal Protection

Occupational exposure limits

ACGIH

Components

Ethanol (64-17-5)

Type

STEL

Value

1000 ppm

U.S. - OSHA

Components Type Value

Ethanol (64-17-5)

PEL

1000 ppm

1900 mg/m³

Product AS SOLD

Appropriate engineering controls:

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering control to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Personal Protection

Eye Protection: Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

Hand Protection: Use chemical-resistant impervious gloves.

Skin Protection: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory Protection: A respirator is not needed under normal and intended conditions of product use.

Hygiene Measures: Wash hand, forearms and face thoroughly after handling chemical products, before eating smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Product AT USE DILUTION

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Section 9 Physical and Chemical Properties

Product AS SOLD

Physical state	Liquid
Color	Dark Green
Odor	disinfectant
pH	6.8- 7.3 (as is)
Boiling point	> 200 °F (> 93.3 °C)
Flash point	130 °F (54.4 °C) PMCC
Evaporation rate	Estimated slower than ethyl ether.
Vapor pressure	Not Determined or Unknown
Vapor density	Estimated heavier than air.
Specific gravity	8.48 (@ 25 C)
VOC	5 - 6 % (Ethanol)
Percent volatile	70 - 80 % (w/w)

Product AT USE DILUTION

Physical State: liquid
pH: 6-9
Odor: disinfectant
Color: Light Green

Section 10 Stability and Reactivity

Product AS SOLD

Stability	This product is stable
Chemical stability	Stable at normal conditions.
Incompatible materials	Under normal conditions of storage and use, hazardous reaction will not occur.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

Route of exposure : Skin contact, Eye contact, Inhalation, ingestion

Product AS SOLD

Symptoms

Eye Contact:

Adverse symptoms may include the following:
Pain, watering, redness

Skin Contact:

Adverse symptoms may include the following:
Pain or irritation, redness, blistering may occur

Inhalation:

Adverse symptoms may include the following:
Coughing, respiratory tract irritation.

Ingestion:

Adverse symptoms may include the following:
Stomach pains

ACUTE TOXICITY

Eye contact: Causes serious eye damage.

Skin Contact: Causes severe burns.

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Ingestion: Harmful if swallowed. May cause burns to mouth, throat and stomach.

Product AT USE DILUTION

Eye Contact:

Adverse symptoms may include the following:
Pain, watering, redness

Skin Contact: No specific data

Inhalation: No specific data

Ingestion: No specific data

ACUTE TOXICITY

Eye contact: Causes eye irritation

Skin Contact: Harmful in contact with skin.

Inhalation: Harmful if inhaled

Ingestion: No known significant effects or critical hazards

Toxicological data Components

Ethanol (64-17-5)

Test Results

Acute Inhalation LC50 Mouse: 0.039 mg/l 4 Hours

Acute Inhalation LC50 Rat: 20000 mg/l 10 Hours

Acute Oral LD50 Dog: 5.5 g/kg

Acute Oral LD50 Guinea pig: 5.6 g/kg

Acute Oral LD50 Mouse: 3450 mg/kg

Acute Oral LD50 Rat: 7060 mg/kg

Acute Oral LD50 Rat: 6.2 g/kg

Acute Other LD50 Mouse: 933 mg/kg

Acute Other LD50 Rat: 1440 mg/kg

Didecyl dimethyl ammonium chloride (7173-51-5)

Acute Dermal LD50 Rabbit: 2730 mg/kg

Acute Oral LD50 Mouse: 268 mg/kg

Acute Oral LD50 Rat: 84 mg/kg

Acute Other LD50 Mouse: 11 mg/kg

Acute Other LD50 Rat: 45 mg/kg

Carcinogenicity

ACGIH Carcinogens

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethanol (CAS 64-17-5)

1 Carcinogenic to humans

Section 12 Ecological Information**ECOTOXICOLOGICAL DATA COMPONENTS**

Ethanol (64-17-5)

EC50 Water flea (*Daphnia magna*): 11.2 - 11.2 mg/l 48 hoursLC50 Fathead minnow (*Pimephales promelas*): > 100 mg/l 96 hours

Alkyl dimethyl benzyl ammonium chloride (C12-16) (68424-85-1)

LC50 Striped bass (*Morone saxatilis*): 19.1 - 19.1 mg/l 96 hours

Didecyl dimethyl ammonium chloride (7173-51-5)

LC50 White sturgeon (*Acipenser transmontanus*): 0 - 0 mg/l 96 hours**Section 13 Disposal Considerations****Product AS SOLD****Disposal Methods**

Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations

Product AT USE DILUTION

Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14 Transportation Information**Product AS SOLD**

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT**DOT Classification**

UN1903

DOT Proper shipping name

Disinfectants, liquid, corrosive n.o.s. (Alkyldimethyl benzyl ammonium chlorides)

Class

8

Packing group

III

IMO/IMDG**IMO/IMDG Classification**

UN1903

IMO/IMDG Classification

Disinfectant, liquid, corrosive nos (Alkyldimethyl Benzyl ammonium chlorides)

Product AT USE DILUTION

Not intended for transport.

Section 15 Regulatory Information

US federal regulations	This product is a U.S. EPA registered pesticide.	
Reportable Quantity	There is no calculable reportable quantity (RQ) for this product.	
CERCLA (Superfund) reportable quantity	None	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Section 302 extremely hazardous substance	No	
Section 311 hazardous chemical	No	

Inventory status

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	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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)

State regulations

US - New Jersey RTK - Substances:	Listed substance
Ethanol (CAS 64-17-5)	Substance no. 0844
US - Pennsylvania RTK - Hazardous Substances:	Listed substance
Ethanol (CAS 64-17-5)	Listed.

Section 16 Other Information

Product AS SOLD

Further information HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings	Health:	3*
	Flammability:	2
	Physical hazard:	0
	Personal protection:	X
NFPA ratings	Health:	3
	Flammability:	2
	Instability:	0

Product AT USE DILUTION

HMIS® ratings	Health:	1*
	Flammability:	0
	Physical hazard:	0
	Personal protection:	X
NFPA ratings	Health:	1
	Flammability:	0
	Instability:	0

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