



# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 12/19/2014 Revision date: 01/21/2026 Supersedes: 12/30/2020 Version: 3.1

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Acute Care Pharma™-D Surface Disinfectant  
Product code : SDS VEL-118

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Disinfectant/Sanitiser (Ready to Use)

#### 1.4. Supplier's details

Supplier: Acute Care Pharmaceuticals  
12225 World Trade Drive  
Suite A, San Diego, CA 92128

Manufacture: Veltek Associates, Inc.  
15 Lee Blvd  
19355-1234 PA - USA  
T +1 610-644-8335  
vai@sterile.com

#### 1.5. Emergency phone number

Emergency number : CARECHEM 24 call: 1-866-928-0789

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Hazardous to the aquatic environment — Acute Hazard, Category 3 H402 Harmful to aquatic life.  
Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard statements (GHS US) : H402 - Harmful to aquatic life  
Precautionary statements (GHS US) : P273 - Avoid release to the environment.  
P501 - Dispose of contents/container to an authorized waste collection point.

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

Other hazards which do not result in classification : May cause eye irritation.

#### 2.5. Unknown acute toxicity

No additional information available

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Didecyldimethylammonium chloride	CAS-No.: 7173-51-5	< 0.1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Dimethyldioctylammonium chloride	CAS-No.: 5538-94-3	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Decyldimethyloctylammonium chloride	CAS-No.: 32426-11-2	< 0.1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS-No.: 68424-85-1	< 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethanol	CAS-No.: 64-17-5	< 0.02	Flam. Liq. 2, H225 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

### SECTION 4 First aid measures

#### 4.1. Description of necessary first-aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth. Do not give an unconscious person anything to drink. Drink plenty of water. If symptoms develop, obtain medical attention.

#### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.
Symptoms/effects after skin contact	: Prolonged or repeated skin contact may aggravate existing skin conditions.

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/effects after eye contact : May cause eye irritation.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : None known.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.  
Explosion hazard : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.  
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Move containers from fire area if you can do it without risk. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire.

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Emergency procedures : Ventilate area. Avoid contact with skin and eyes. Evacuate unnecessary personnel.

#### For emergency responders

Protective equipment : Use personal protective equipment as required. See Section 8.  
Emergency procedures : Ventilate area. Avoid contact with skin and eyes. Spill area may be slippery.

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.2. Methods and materials for containment and cleaning up

For containment : Stop leak, if possible without risk. Dam up the liquid spill.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Shovel up and place in a non-metal waste container for disposal. Keep in suitable, closed containers for disposal. Wash contaminated area with large amounts of water. Dispose in a safe manner in accordance with local/national regulations.  
Other information : Caution : this product can cause the floor to be slippery.

SECTION 8: Exposure controls/personal protection, SECTION 13: Disposal considerations

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Provide good ventilation in process area to prevent formation of vapor.
- Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Containers which are opened should be properly resealed and kept upright to prevent leakage.
- Incompatible products : anionic surfactants.
- Specific end uses : Disinfectant/Sanitiser (Ready to Use).

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

Ethanol (64-17-5)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethanol
ACGIH® TLV® STEL	1880 mg/m <sup>3</sup>
ACGIH STEL (ppm)	1000 ppm
Remark (ACGIH®)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Ethyl alcohol (Ethanol)
OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
OSHA PEL TWA	1000 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>USA - NIOSH - Occupational Exposure Limits</b>	
Local name	Ethyl alcohol (Ethanol)
NIOSH REL 10h TWA	1000 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide adequate ventilation.
- Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Not required for normal conditions of use. In case of repeated or prolonged contact wear gloves. Gloves should be removed and replaced if there are any signs of degradation or breakthrough. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Hand Protection in accordance with 29 CFR 1910.138 & ANSI/ISEA 105-2016

#### Eye protection:

Wear goggles or safety glasses with side shields if contact with the eyes is possible. Eye Protection in accordance with 29 CFR 1910.133 & ANSI/ISEA Z87.1-2020

#### Skin and body protection:

Not required for normal conditions of use

#### Respiratory protection:

Not required under normal use. In case of insufficient ventilation, wear suitable respiratory equipment

#### Thermal hazard protection:

Not required for normal conditions of use.

#### Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Color	: Clear
Odor	: Characteristic
Odor threshold	: No data available
pH	: 7 – 9
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C (>212 °F)
Flash point	: does not flash
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 0.99
Density	: 0.99 g/ml (8.34 lbs./gal.)
Solubility	: Miscible with water.
Log Pow	: < 4
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: Low viscosity
Explosion limits	: No data available
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7).

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

anionic surfactants.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides.

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

Acute Care Pharma™-D Surface Disinfectant	
LD50 oral, rat	> 5000 mg/kg
LD50 dermal, rat	> 2000 mg/kg
Ethanol (64-17-5)	
LD50 oral, rat	10470 mg/kg
LC50 inhalation, rat (mg/l)	116.9 mg/l
Didecyltrimethylammonium chloride (7173-51-5)	
LD50 oral, rat	≈ 329 mg/kg body weight (OECD 401 method)
LD50 dermal, rabbit	> 1000 mg/kg body weight (OECD 402 method)
Dimethyldioctylammonium chloride (5538-94-3)	
LD50 oral, rat	238 mg/kg body weight (OECD 401 method)
LD50 dermal, rabbit	191 mg/kg body weight (OECD 434 method)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LD50 oral, rat	350 mg/kg (OECD 401 method)
LD50 oral	280.8 mg/kg
LD50 dermal, rabbit	2848 mg/kg (EPA OPPTS 870.1200)
LD50 dermal	704 mg/kg

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

LC50 inhalation, rat (Dust/Mist - mg/l/4h)	0.054 mg/l/4h
Skin corrosion/irritation	: Not classified pH: 7 – 9
Serious eye damage/irritation	: Not classified pH: 7 – 9
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

### Ethanol (64-17-5)

IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

### Acute Care Pharma™-D Surface Disinfectant

Viscosity, kinematic	Low viscosity
Symptoms/effects after inhalation	: Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.
Symptoms/effects after skin contact	: Prolonged or repeated skin contact may aggravate existing skin conditions.
Symptoms/effects after eye contact	: May cause eye irritation.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general	: Harmful to aquatic life.
Ecology - water	: Avoid release to the environment.
Hazardous to the aquatic environment, short-term (acute)	: Harmful to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### Ethanol (64-17-5)

LC50 fish	11200 mg/l (calculated value)
LC50 other aquatic organisms	4432 mg/l - 7 days (Lemna gibba)
EC50 Daphnia	5012 mg/l (calculated value) (freshwater)
EC50 - Crustacea [2]	857 mg/l (calculated value) (marine water)
EC50 72h - Algae [1]	275 mg/l - 72 Hours (Chlorella vulgaris)
NOEC (chronic)	280 mg/l - 7 days (Lemna gibba)
NOEC chronic fish	250 mg/l - 120 Hours (Danio rerio)
NOEC chronic crustacea	9.6 mg/l - 10 days (Ceriodaphnia dubia, reproduction)
NOEC chronic algae	11.5 mg/l - 72 Hours (Chlorella vulgaris)

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Didecyldimethylammonium chloride (7173-51-5)</b>	
LC50 fish	≈ 0.49 mg/l - 96 Hours (Danio rerio), (OECD 203 method)
EC50 Daphnia	≈ 0.029 mg/l - 48 Hours (Daphnia magna, Mobility), (OECD 202 method)
ErC50 algae	≈ 0.062 mg/l - 72 Hours (Pseudokirchneriella subcapitata), (OECD 201 method)
NOEC chronic crustacea	≈ 0.021 mg/l - 21 days (Daphnia magna, reproduction), (OECD 211 method)
NOEC, algae	≈ 0.013 mg/l (72 Hours, Pseudokirchneriella subcapitata, Growth rate (OECD 201 method))

<b>Dimethyldioctylammonium chloride (5538-94-3)</b>	
LC50 fish	0.35 mg/l - 96 Hours (Oncorhynchus mykiss), (OECD 203 method)
LC50 other aquatic organisms	0.1 mg/l - 48 Hours (Daphnia magna), (OECD 202 method)
ErC50 algae	≥ 0.122 mg/l - 72 Hours (Pseudokirchneriella subcapitata), (OECD 201 method)
NOEC chronic fish	18 µg/L - 33 days (Pimephales promelas, Growth rate), (OECD 210 method)
NOEC chronic crustacea	0.027 mg/l - 21 days (Daphnia magna, Growth rate), (OECD 211 method)
NOEC, algae	≥ 0.01 mg/l (72 Hours, Pseudokirchneriella subcapitata, Growth rate (OECD 201 method))

<b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)</b>	
LC50 fish	0.064 mg/l
EC50 Daphnia	0.0059 mg/l
NOEC chronic fish	32.2 µg/L - 28d (Pimephales promelas) U.S. EPA FIFRA 72-4(a)
NOEC chronic crustacea	0.00415 mg/l

### 12.2. Persistence and degradability

#### Acute Care Pharma™-D Surface Disinfectant

Persistence and degradability	Not established.
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#### Ethanol (64-17-5)

Persistence and degradability	Readily biodegradable.
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#### Didecyldimethylammonium chloride (7173-51-5)

Persistence and degradability	Readily biodegradable.
Biodegradation	≈ 69 % - 28 days (Activated sludge), (OECD 301D method)

#### Dimethyldioctylammonium chloride (5538-94-3)

Persistence and degradability	Readily biodegradable, failing 10-d window.
Biodegradation	73 % - 28 days (Activated sludge), (OECD 301D method)

#### Decyldimethyloctylammonium chloride (32426-11-2)

Persistence and degradability	Not established.
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#### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Persistence and degradability	Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### Acute Care Pharma™-D Surface Disinfectant

Log Pow	< 4
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# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Acute Care Pharma™-D Surface Disinfectant	
Bioaccumulative potential	Not expected to bioaccumulate.
Ethanol (64-17-5)	
Log Pow	-0.35 (20 °C)
Bioaccumulative potential	Low bioaccumulation potential.
Didecyltrimethylammonium chloride (7173-51-5)	
Log Pow	≈ 2.59 (20 °C, pH ≈ 7), (OECD 105 method)
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Dimethyldioctylammonium chloride (5538-94-3)	
Log Pow	0.08 (21 °C, pH > 6 - < 8), (OECD 107 method)
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
BCF - Fish [1]	79 l/kg
Bioaccumulative potential	Low bioaccumulation potential.

### 12.4. Mobility in soil

Didecyltrimethylammonium chloride (7173-51-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	5.75 (20 °C), (OECD 106 method)
Ecology - soil	Expected to adsorb to soil. Low mobility (soil).
Dimethyldioctylammonium chloride (5538-94-3)	
Ecology - soil	Not considered mobile.
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
Ecology - soil	Expected to be relatively immobile in soil.

### 12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No
Other information	: Avoid release to the environment.

## SECTION 13 Disposal considerations

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Additional information	: Handle empty containers with care.
Ecology - waste materials	: Avoid release to the environment.

## SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 14.1. UN number

UN-No. (DOT) : Not regulated  
UN-No. (TDG) : Not applicable  
UN-No. (IMDG) : Not regulated  
UN-No. (IATA) : Not regulated

### 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated  
Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : Not regulated

#### TDG

Transport hazard class(es) (TDG) : Not applicable

#### IMDG

Transport hazard class(es) (IMDG) : Not regulated

#### IATA

Transport hazard class(es) (IATA) : Not regulated

### 14.4. Packing group

Packing group (DOT) : Not regulated  
Packing group (TDG) : Not applicable  
Packing group (IMDG) : Not regulated  
Packing group (IATA) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

Not regulated

#### TDG

Not applicable

#### IMDG

Not regulated

#### IATA

Not regulated

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 15 Regulatory information

#### 15.1. Federal regulations

##### Acute Care Pharma™-D Surface Disinfectant

SARA Section 311/312 Hazard Classes	Health hazard - Serious eye damage or eye irritation
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Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Ethanol	64-17-5	Present	Active	
Didecyldimethylammonium chloride	7173-51-5	Present	Active	
Dimethyldioctylammonium chloride	5538-94-3	Present	Active	
Decyldimethyloctylammonium chloride	32426-11-2	Present	Active	
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	Present	Active	TP

#### 15.2. International regulations

##### CANADA

###### Ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

###### Didecyldimethylammonium chloride (7173-51-5)

Listed on the Canadian DSL (Domestic Substances List)

###### Dimethyldioctylammonium chloride (5538-94-3)

Listed on the Canadian DSL (Domestic Substances List)

###### Decyldimethyloctylammonium chloride (32426-11-2)

Listed on the Canadian DSL (Domestic Substances List)

###### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

###### Ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

###### Didecyldimethylammonium chloride (7173-51-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Ethanol(64-17-5)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date	: 01/21/2026
Issue date	: 12/19/2014
Data sources	: US OSHA HazCom (GHS) 25 May 2012.
Other information	: This product is registered by the United States Environmental Protection Agency under number 10324-85-68959. The hazard classification assigned by the US EPA is: CAUTION.

### Full text of hazard classes and H-statements

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

### Abbreviations and acronyms

	ACGIH (American Conference of Government Industrial Hygienists)
	BCF (Bioconcentration Factor/Bioconcentration factor)
	CAS (Chemical Abstracts Service) number
	DOT (Department Of Transportation (US))
	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

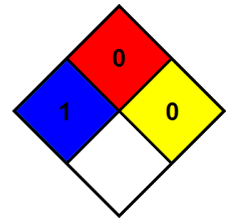
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Abbreviations and acronyms	
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	Koc (Soil adsorption coefficient)
	LC50 (Lethal Concentration 50%)
	LD50 (Lethal Dose 50%)
	NOEC (No Observed Effect Concentration)
	OECD (Organisation for Economic Co-operation and Development)
	OEL (Occupational exposure limit)
	OSHA (Occupational Safety and Health Administration) (US)
	STEL (Short Term Exposure Limit)
	TSCA (Toxic Substances Control Act) (US)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:		
Section	Changed item	Comments
1	Supplier	<b>Modified</b>
2	Hazards identification	<b>Modified</b>
3	Composition/Information on ingredients	<b>Modified</b>
4	First aid measures	<b>Modified</b>
5	Fire fighting measures	<b>Modified</b>
6	Accidental release measures	<b>Modified</b>
7	Handling and storage	<b>Modified</b>
8	Exposure controls / Personal protection equipment	<b>Modified</b>
9	Physical and chemical properties	<b>Modified</b>
10	Stability and reactivity	<b>Modified</b>

# Acute Care Pharma™-D Surface Disinfectant

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

11	Toxicological information	<b>Modified</b>
12.	Ecological information	<b>Modified</b>
13	Disposal considerations	<b>Modified</b>
15	Regulatory information	<b>Modified</b>
16	Other information	<b>Modified</b>

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