

**1. IDENTIFICATION**

**Product identifier**

**Product Name** D7 Part 1

**Other means of identification**

**SDS #** DEC-001

**Registration Number(s)** EPA Reg. Number 89833-3

**Recommended use of the chemical and restrictions on use**

**Recommended Use** EPA registered disinfectant

**Details of the supplier of the safety data sheet**

**Supplier Address**

Decon7 Systems, Inc.  
110 Freeport Parkway  
Suite 120  
Coppell, TX 75019  
Phone: 1-844-727-3626 (US Toll-free) +1-469-830-1800 (Toll, International)

**Emergency telephone number**

**Emergency Telephone** CHEMTREC 1-800-424-9300 (North America) 24 hours a day / 7 days a week  
1-703-527-3887 (International) 24 hours a day / 7 days a week

**2. HAZARDS IDENTIFICATION**

**Emergency Overview** This product is registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-EPA registered chemicals. See Section 15 for EPA information.

**Appearance** Clear colorless liquid

**Physical state** Liquid

**Odor** Mild

**Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

**Signal Word**

**Danger**

**Hazard statements**

Causes skin irritation  
Causes serious eye damage



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

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: Wash with plenty of water and soap  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	3-5
Proprietary Inorganic Base	Proprietary	0.5-5
Proprietary Disinfectant	Proprietary	Proprietary
Proprietary Organic Compound	Proprietary	Proprietary
Proprietary Alcohol 1	Proprietary	Proprietary
Proprietary Alcohol 2	Proprietary	Proprietary

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Causes serious eye damage. Causes skin irritation. May be harmful if swallowed.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** No data available.

**Specific Hazards Arising from the Chemical**

No data available.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Wash face, hands and any exposed skin thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary Inorganic Base	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Proprietary Organic Compound	TWA: 10 ppm inhalable fraction and vapor	-	-
Proprietary Alcohol 1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m <sup>3</sup> (vacated) TWA: 50 ppm (vacated) TWA: 150 mg/m <sup>3</sup>	IDLH: 1600 ppm TWA: 50 ppm TWA: 150 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures, such as personal protective equipment (PPE)**

<b>Eye/Face Protection</b>	Wear eye/face protection.
<b>Skin and Body Protection</b>	Wear protective gloves and protective clothing. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
<b>Respiratory Protection</b>	For concentrations above the exposure limit(s), use appropriate certified respirators.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Clear colorless liquid	<b>Odor Threshold</b>	No data available
<b>Color</b>	Colorless		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	10 – 11		
<b>Melting point / freezing point</b>	< 32 °F (0 °C)	Will become cloudy at temperatures around 32 °F (0 °C). Protect from freezing.	
<b>Boiling point / boiling range</b>	> 212 °F (100 °C)		
<b>Flash point</b>	No data available		
<b>Evaporation Rate</b>	No data available		
<b>Flammability (Solid, Gas)</b>	Liquid - Not Applicable		
<b>Flammability Limit in Air</b>			
<b>Upper flammability or explosive limits</b>	No data available		
<b>Lower flammability or explosive limits</b>	No data available		
<b>Vapor Pressure</b>	No data available		
<b>Vapor Density</b>	No data available		
<b>Relative Density</b>	1.06 – 1.14		
<b>Water Solubility</b>	Soluble in all proportions		
<b>Solubility in other solvents</b>	No data available		
<b>Partition Coefficient</b>	No data available		
<b>Autoignition temperature</b>	No data available		
<b>Decomposition temperature</b>	No data available		
<b>Kinematic viscosity</b>	No data available		
<b>Dynamic Viscosity</b>	No data available		
<b>Explosive Properties</b>	No data available		
<b>Oxidizing Properties</b>	No data available		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

**Conditions to Avoid**

Keep out of reach of children.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	Avoid contact with skin.
<b>Inhalation</b>	Do not inhale.
<b>Ingestion</b>	May be harmful if swallowed.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2 Propanediol 57-55-6	= 20 g/kg ( Rat )	= 20800 mg/kg ( Rabbit )	-
Alkyl dimethyl benzyl ammonium chloride (C12-16) 68424-85-1	= 426 mg/kg ( Rat )	-	-
Proprietary Inorganic Base	= 284 mg/kg ( Rat )	-	-
Proprietary Disinfectant	= 205 mg/kg ( Rat )	-	-
Proprietary Organic Compound	= 5660 mg/kg ( Rat )	= 2700 mg/kg ( Rabbit )	-
Proprietary Alcohol 1	= 2460 mg/kg ( Rat )	= 3400 mg/kg ( Rabbit )	> 6.5 mg/L ( Rat ) 4 h
Proprietary Alcohol 2	> 12800 mg/kg ( Rat )	-	-

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Carcinogenicity</b>	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>Oral LD50</b>	3,541.70 mg/kg
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**Dermal LD50** 54,105.30 mg/kg  
**ATEmix (inhalation-dust/mist)** 650.6500 mg/L

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
1,2 Propanediol 57-55-6	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51600: 96 h Oncorhynchus mykiss mg/L LC50 static	1000: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna mg/L EC50
Proprietary Inorganic Base		80: 96 h Gambusia affinis mg/L LC50 static	
Proprietary Organic Compound	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50
Proprietary Alcohol 1	230: 48 h Desmodesmus subspicatus mg/L EC50	375: 96 h Pimephales promelas mg/L LC50 static 1120 - 1520: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 1370 - 1670: 96 h Pimephales promelas mg/L LC50 flow-through 1480 - 1730: 96 h Lepomis macrochirus mg/L LC50 flow-through	1070 - 1933: 48 h Daphnia magna mg/L EC50 Static 1300: 48 h Daphnia magna mg/L EC50
Proprietary Alcohol 2	0.62: 96 h Desmodesmus subspicatus mg/L EC50	1.01: 96 h Pimephales promelas mg/L LC50 flow-through 0.1855: 96 h Pimephales promelas mg/L LC50	320: 48 h Daphnia magna mg/L EC50

### Persistence/Degradability

No data available.

### Bioaccumulation

There is no data for this product.

### Mobility

Chemical name	Partition coefficient
Proprietary Inorganic Base	0.83
Proprietary Alcohol 1	0.79
Proprietary Alcohol 2	5.36

### Other Adverse Effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### **Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical name	California Hazardous Waste Status
Proprietary Inorganic Base	Toxic Corrosive

**14. TRANSPORT INFORMATION**

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

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

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

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
1,2 Propanediol	X	ACTIVE	X	X	X	X	X	X	X
Inorganic Buffer	X	ACTIVE	X	X	X	X	X	X	X
Alkyl dimethyl benzyl ammonium chloride (C12-16)	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Inorganic Base	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Disinfectant	X	ACTIVE	X	X		X	X	X	X
Proprietary Organic Compound	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Alcohol 1	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Alcohol 2	X	ACTIVE	X	X	X	X	X	X	X

**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*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations****CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Proprietary Inorganic Base	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Proprietary Alcohol 1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
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Proprietary Organic Compound -		Proprietary	1.0
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**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Proprietary Inorganic Base	1000 lb			X

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
1,2 Propanediol 57-55-6	X		X
Proprietary Inorganic Base	X	X	X
Proprietary Organic Compound	X		X
Proprietary Alcohol 1	X	X	X

**EPA Pesticide Registration Number** EPA Reg. Number 89833-3

**EPA Statement**

This chemical is a pesticide product 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. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label**

Please see EPA label for more information.

**Difference between SDS and EPA pesticide label**

Please see EPA label for more information.



**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b> No data available	<b>Flammability</b> No data available	<b>Instability</b> No data available	<b>Special Hazards</b> No data available
<b><u>HMIS</u></b>	<b>Health Hazards</b> No data available	<b>Flammability</b> No data available	<b>Physical hazards</b> No data available	<b>Personal Protection</b> No data available

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**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**