

## 1. IDENTIFICATION

**Product identifier**

**Product Name** Mixture of D7 Part 1 and D7 Part 2

**Other means of identification**

**SDS #** DEC-004

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

**Recommended Use** Sanitizer. 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

**Appearance** Clear colorless liquid

**Physical state** Liquid

**Odor** Mild

**Classification**

|                                   |            |
|-----------------------------------|------------|
| Skin corrosion/irritation         | Category 2 |
| Serious eye damage/eye irritation | Category 2 |

**Signal Word**

**Warning**

**Hazard statements**

Causes skin irritation  
Causes serious eye irritation



**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

If eye irritation persists: Get medical advice/attention

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

**Other hazards**

Harmful to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical name                                    | CAS No      | Weight-%    |
|--------------------------------------------------|-------------|-------------|
| Hydrogen Peroxide                                | 7722-84-1   | 2-4         |
| Alkyl dimethyl benzyl ammonium chloride (C12-16) | 68424-85-1  | 1-3         |
| Proprietary Inorganic Base                       | Proprietary | 0.5-2       |
| Proprietary Disinfectant                         | 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. If eye irritation persists: Get medical advice/attention. |
| <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 irritation. Causes skin irritation. |
|-----------------|--------------------------------------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

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

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

**Storage Conditions** Do not place this mixture in a sealed container or sealed system otherwise, pressure will build up.

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical name                  | ACGIH TLV                                | OSHA PEL                                                                                                    | NIOSH IDLH                                                  |
|--------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Hydrogen Peroxide<br>7722-84-1 | TWA: 1 ppm                               | TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup><br>(vacated) TWA: 1 ppm<br>(vacated) TWA: 1.4 mg/m <sup>3</sup>    | IDLH: 75 ppm<br>TWA: 1 ppm<br>TWA: 1.4 mg/m <sup>3</sup>    |
| 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<br>TWA: 300 mg/m <sup>3</sup><br>(vacated) TWA: 50 ppm<br>(vacated) TWA: 150 mg/m <sup>3</sup> | IDLH: 1600 ppm<br>TWA: 50 ppm<br>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>Property</b>                               | <b>Values</b>           | <b>Remarks • Method</b> |                   |
| <b>pH</b>                                     | 9.5-10.5                | Protect from freezing.  |                   |
| <b>Melting point / freezing point</b>         | < 32 °F (0 °C)          |                         |                   |
| <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>                       | No data available       |                         |                   |
| <b>Water Solubility</b>                       | No data available       |                         |                   |
| <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****Eye Contact** Avoid contact with eyes.**Skin Contact** Avoid contact with skin.**Inhalation** Do not inhale.**Ingestion** Do not ingest.**Component Information**

| Chemical name                                                     | Oral LD50             | Dermal LD50              | Inhalation LC50                      |
|-------------------------------------------------------------------|-----------------------|--------------------------|--------------------------------------|
| Propylene Glycol<br>57-55-6                                       | = 20 g/kg ( Rat )     | = 20800 mg/kg ( Rabbit ) | -                                    |
| Hydrogen Peroxide<br>7722-84-1                                    | = 1518 mg/kg ( Rat )  | = 9200 mg/kg ( Rabbit )  | = 2000 mg/m <sup>3</sup> ( Rat ) 4 h |
| Alkyl dimethyl benzyl ammonium<br>chloride (C12-16)<br>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****Symptoms** Please see section 4 of this SDS for symptoms.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation** Causes skin irritation.**Serious eye damage/eye irritation** Causes serious eye irritation.**Carcinogenicity** Group 3 IARC components are "not classifiable as human carcinogens".

| Chemical name                  | ACGIH | IARC    | NTP | OSHA |
|--------------------------------|-------|---------|-----|------|
| Hydrogen Peroxide<br>7722-84-1 | A3    | Group 3 |     |      |

**Legend***ACGIH (American Conference of Governmental Industrial Hygienists)**A3 - Animal Carcinogen**IARC (International Agency for Research on Cancer)**Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**Numerical measures of toxicity**

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

Oral LD50 6,106.90 mg/kg  
ATEmix (inhalation-dust/mist) 37.9747 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                                                                           |
|--------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Propylene Glycol<br>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       |
| Hydrogen Peroxide<br>7722-84-1 | 2.5: 72 h Chlorella vulgaris mg/L EC50                | 16.4: 96 h Pimephales promelas mg/L LC50 10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static                                                                                    | 7.7: 24 h Daphnia magna mg/L EC50 18 - 32: 48 h Daphnia magna mg/L EC50 Static      |
| 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 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           |
|--------------------------------|---------------------------------------------|
| Hydrogen Peroxide<br>7722-84-1 | Toxic<br>Corrosive<br>Ignitable<br>Reactive |
| Proprietary Inorganic Base     | Toxic<br>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/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|--------------------------------------------------|------|-----------------------|----------|---------------|------|-------|------|-------|------|
| Propylene Glycol                                 | X    | ACTIVE                | X        | X             | X    | X     | X    | X     | X    |
| Proprietary Inorganic Buffer                     | X    | ACTIVE                | X        | X             | X    | X     | X    | X     | X    |
| Hydrogen Peroxide                                | 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)                   |
|--------------------------------|--------------------------|----------------|--------------------------------------------|
| Hydrogen Peroxide<br>7722-84-1 |                          | 1000 lb        |                                            |
| Proprietary Inorganic Base     | 1000 lb                  |                | RQ 1000 lb final RQ<br>RQ 454 kg final RQ  |
| Proprietary Alcohol 1          | 5000 lb                  |                | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**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 |
|--------------------------------|------------|---------------|--------------|
| Propylene Glycol<br>57-55-6    | X          |               | X            |
| Hydrogen Peroxide<br>7722-84-1 | X          | X             | X            |
| Proprietary Inorganic Base     | X          | X             | X            |
| Proprietary Organic Compound   | X          |               | X            |
| Proprietary Alcohol 1          | X          | X             | X            |

**16. OTHER INFORMATION****NFPA****Health Hazards**

No data available

**Flammability**

No data available

**Instability**

No data available

**Special Hazards**

No data available

**HMIS****Health Hazards**

No data available

**Flammability**

No data available

**Physical hazards**

No data available

**Personal Protection**

No data available

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2.0

**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