DECON SEVEN SYSTEMS

SAFETY DATA SHEET

Issue Date: 12-March-2021 **Revision Date:** 12-March-2021 **Version** 2.0

1. IDENTIFICATION

Product identifier

Product Name Mixture of D7 Part 1, D7 Part 2 and D7 Part 3

Other means of identification

SDS # DEC-005

Recommended use of the chemical and restrictions on use

Recommended Use 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Hydrogen Peroxide	7722-84-1	2-4
Diacetin Technical	Proprietary	1-5
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

General Advice Provide this SDS to medical personnel for treatment.

Eye Contact 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.

Skin Contact Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

Inhalation Remove to fresh air.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms Causes serious eye irritation. Causes skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician 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 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m^3 (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m^3	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m^3
Proprietary Inorganic Base	Ceiling: 2 mg/m^3	(vacated) Ceiling: 2 mg/m^3	Ceiling: 2 mg/m^3
Proprietary Organic Compound	TWA: 10 ppm inhalable fraction and vapor	-	-
Proprietary Alcohol 1	TWA: 50 ppm	TWA: 100 ppm TWA: 300 mg/m^3 (vacated) TWA: 50 ppm (vacated) TWA: 150 mg/m^3	IDLH: 1600 ppm TWA: 50 ppm TWA: 150 mg/m^3

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear eye/face protection.

Skin and Body Protection Wear protective gloves and protective clothing. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Respiratory Protection For concentrations above the exposure limit(s), use appropriate certified respirators.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Clear colorless liquid	**Odor**	Mild
Color	Colorless	**Odor Threshold**	No data available

Property	**Values**	**Remarks • Method**
pH	9.5-10.5	
Melting point / freezing point	< 32 °F (0 °C)	Protect from freezing.
Boiling point / boiling range	> 212 °F (100 °C)	
Flash point	No data available	
Evaporation Rate	No data available	
Flammability (Solid, Gas)	Liquid - Not Applicable	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	No data available	
Water Solubility	No data available	
Solubility in other solvents	No data available	
Partition Coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic Viscosity	No data available	
Explosive Properties	No data available	
Oxidizing Properties	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 57-55-6	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	-
Hydrogen Peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 9200 mg/kg (Rabbit)	= 2000 mg/m^3 (Rat) 4 h
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

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 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 12,025.90 mg/kg 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 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 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 7722-84-1	Toxic Corrosive Ignitable Reactive
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/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
Diacetin Technical	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 7722-84-1		1000 lb	
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 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 57-55-6	X		X
Hydrogen Peroxide 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**	**Flammability**	**Instability**	**Special Hazards**
	No data available	No data available	No data available	No data available
HMIS	**Health Hazards**	**Flammability**	**Physical hazards**	**Personal Protection**
	No data available	No data available	No data available	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