SAFETY DATA SHEET

IMPORTANT: Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: PRODUCT USES: COMPANY IDENTITY: COMPANY ADDRESS: COMPANY CITY: COMPANY PHONE: EMERGENCY PHONE: CHEMTREC Disinfecting Detergent Heavy Duty Cleaner, Disinfectant Biosolutions LLC 1800 Industrial Park Drive Grand Haven, MI 49417 1-616-846-1210

1-800-424-9300 (U.S) 1-703-527-3887 (outside the U.S.)

Category 4

Category 4

Category 2

Category 3

SECTION 2. HAZARDS IDENTIFICATION

2.1 HAZARD STATEMENTS: (CAT = Hazard Category)	
Physical Hazards:	None known
Health Hazards:	Acute Toxicity,

Environmental Hazards: OSHA defined Hazards Label Elements None known Acute Toxicity, Oral Acute Toxicity, Dermal Skin corrosion/irritation Eye Corrosion/irritation None Known Not classified

Signal Word

Danger

Hazard Statement

Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye damage.

2.2 PRECAUTIONARY STATEMENTS:

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Causes skin irritation and serious eye damage. Harmful if swallowed.

PREVENTION:	Do not get in eyes, on skin, or on clothing. Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye, face and foot protection.
RESPONSE:	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting. Remove immediately all contaminated clothing. Rinse skin with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Wash contaminated clothing before reuse
STORAGE:	No special requirements.
DISPOSAL:	Dispose of the contents/container in accordance with local, regional, national, and international regulation.
Hazard(s) not otherwise	
classified (HNOC)	None Known
SEE SECTI	ONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	CAS#	WT %
Didecyldimethylammonium Chloride	7173-51-5	4.2-4.4%
Quatenary Ammonium compounds,	68424-85-1	4.2-4.4%
Benzyl-C12-C16-Alkyldimethyl, Chlorides		

TRACE COMPONENTS: Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Materials Identification System Standard (CPR 4).

SECTION 4. FIRST AID MEASURES

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Take off immediately all contaminated clothing. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindesss could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Water Fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable Extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific Hazards arising from the chemical	Vapors may form explosive mixtures in air.
Special protective equipment	Self-Contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire do not breath fumes.
Specific methods	Use standard firefighting procedures and consider the hazards of the other involved materials.
General fire hazards	None Known
	SECTION 6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective equipment, emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and. clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece, mop). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, Water courses or onto the ground.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage. Avoid releases to the environment. Do not empty into drains.
Conditions for safe storage, includi any incompatibilitie	
	SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Occupational Expos	ure Limits
Biological Limit values	No biological exposure limits noted for the ingredient(s).
Appropriate Engineering Controls	If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities an emergency shower must be available when handling this product.
Individual protectio Eye/Face protection	n measures, such as personal protective equipment Wear safety glasses with side shields (or goggles). Face shield is recommended.
Skin protection	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

SECTION 10. STABILITY & REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known under conditions of normal use
Conditions to avoid	None known
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	No hazardous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION

Ingestion	Harmful is swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.	
Inhalation	May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.	
Skin Contact	Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.	
Eye Contact	Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation,	
Symptoms related to the physical, chemical and toxicological characteristics	redness, watering, blurred vision or loss of vision. Dermatitis. Rash. Skin irritation. May cause Redness and Pain . May cause an allergic skin reaction.	
Information on toxi	cological effects	
Acute toxicity Didecyldimethylamm Dermal LD50: Oral LD50: Quaternary Ammoniu Dermal LD50: Oral LD50:	Toxic if swallowed Ionium Chloride (CAS 7173-5105) 3342 mg/kg Rat: >1000mg/kg 238 mg/kg Rat: 329mg/kg Ium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides 3560 430	
Skin Corrosion/ irritation	Causes skin irritation.	
Serious eye damage/Eye irritati	Direct contact with eyes may cause temporary irritation. on	
Respiratory sensitization	Not available.	
Skin sensitization	Not available	
Germ Cell mutagenicity	No data available to indicate product or any components present at greater than .01% are mutagenic or genotoxic	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Reproductive toxicity	This product is not expected to case reproductive or developmental effects.	
Specific target organ toxicity -Single Exposure	Not Classified.	

Specific target organ toxicity -Repeated exposure	Not Classified.
Aspiration hazard	Not available.
Chronic Effects	Prolonged inhalation may be harmful. SECTION 12. ECOLOGICAL INFORMATION
Ecotoxicity	Toxic to aquatic life
Persistence and degradability	No data is available on the degradability of this product
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse Effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers and liners may retain some product residues. Vapor from some product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Processing, use or contamination may change the waste disposal requirements. Do not dispose of on land, in surface waters, or in storm drains. Waste should be recycled or disposed of in accordance with regulations. Large amounts should be collected for reuse or consigned to licensed hazardous waste haulers for disposal. ALL DISPOSAL MUST BE IN ACCORDANCE WITH ALL FEDERAL, STATE, PROVINCIAL, AND LOCAL REGULATIONS. IF IN DOUBT, CONTACT PROPER AGENCIES.

SECTION 14. TRANSPORT INFORMATION

MARINE POLLUTANT:	No
DOT/TDG SHIP NAME:	Not regulated as dangerous goods
IATA / ICAO:	Not regulated as dangerous goods
IMO / IMDG:	Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

TSCA section 12(b) Export Notification (40 CFR 707, Subpt. D) Not Regulated **CERCLA hazardous Substance List (40 CFR 302.4)** Not listed SARA 304 Emergency release notification Not Regulated OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories Immediate Hazard- No Delayed Hazard- No Fire Hazard- No Pressure Hazard-No Reactivity Hazard-NO SARA 302 Extremely hazardous substance Not Listed SARA 311/312 Hazardous chemical No SARA 313 (TRI reporting) Not regulated **Other federal regulations** Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not Regulated Safe Drinking Water Act (SDWA) Not regulated **State regulations US. Massachusetts RTK- Substance List** Not regulated US. New Jersey Worker and Community Right-to-Know Act Not regulated US. Pennsylvania Worker and Community Right-to-Know Law Not regulated **US. Rhode Island RTK** Not regulated **US. California Proposition 65** This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16. OTHER INFORMATION

Issue Date Version # NOTICE

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The supplier disclaims all expressed or implied warranties of merchantability or fitness or a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon information contained herein. This information with any other material or process.