

1. Product and Company Identification

Product Code: DECIMATE
Product Name: Decimate
Trade Name: Decimate Disinfectant
Company Name: Casco Cleaning Solutions, LLC
208 E. Enterprise St
Brookhaven, MS 39601
Emergency Contact: Chemtrec (800)424-9300
Intended Use: FIFRA Regulated End Use Product (EUP)

2. Hazards Identification

Oxidizing Liquids, Category 3
Organic Peroxides, Type F
Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1
Specific Target Organ Toxicity (single exposure), Category 2
Aquatic Toxicity (Acute), Category 2



GHS Signal Word: **Danger**

GHS Hazard Phrases: H242 - Heating may cause a fire.
H272 - May intensify fire; oxidizer.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H332 - Harmful if inhaled.
H371 - May cause damage to organs .
H401 - Toxic to aquatic life.

GHS Precautionary Phrases: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep away from combustible materials.
P221 - Take any precaution to avoid mixing with combustibles/...
P234 - Keep only in original container.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SAFETY DATA SHEET

Decimate

GHS Storage and Disposal Phrases:	P309+311 - Call a POISON CENTER or doctor/physician if exposed or you feel unwell. P310 - Immediately call a POISON CENTER or doctor/physician. P321 - Specific treatment see ... on this label. P330 - Rinse mouth. P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P410 - Protect from sunlight. P411+235 - Store in cool place at temperatures not exceeding ...°C/...°F. P420 - Store away from other materials. P501 - Dispose of contents/container to ...
Potential Health Effects (Acute and Chronic):	Hazards not otherwise classified (HNOC) or not covered by GHS -none. Hazards not otherwise classified (HNOC) or not covered by GHS.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
7722-84-1	Hydrogen peroxide	20.0 -30.0 %	
64-19-7	Acetic acid	5.0 -10.0 %	
79-21-0	Peracetic acid	5.0 -10.0 %	
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	1.0 -3.0 %	
7664-93-9	Sulfuric acid	1.0 %	

4. First Aid Measures

Emergency and First Aid Procedures:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. If inhaled, remove to fresh air. Consult doctor if feeling unwell.
In Case of Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact:	After eye contact: rinse out with plenty of water. Remove contact lenses. Immediately call in ophthalmologist. Remove contact lenses. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
In Case of Ingestion:	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.
Signs and Symptoms Of Exposure:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
Indication of any immediate medical attention and special treatment needed:	No data available.

5. Fire Fighting Measures

Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
Unsuitable Extinguishing Media:	For this substance/mixture no limitations of extinguishing agents are given.
Fire Fighting Instructions:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system. Wear self contained breathing apparatus for fire fighting if necessary. Use water spray to cool unopened containers.
Flammable Properties and Hazards:	Nature of decomposition products not known. Non-combustible, Has a fire-promoting effect due to release of oxygen. Carbon oxides, Sulphur oxides, nitrogen oxides (NOx), cerium oxides.
Hazardous Combustion Products:	No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid contact, inhalation and ingestion. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: For personal protection see section 8. For personal protection see section 8. Use personal protective equipment. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Wear respiratory protection.
Environmental Precautions:	Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Steps To Be Taken In Case Material Is Released Or Spilled:	Cover drains. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. Handling and Storage

Precautions To Be Taken in Handling:	Advice on safe handling Observe label precautions. Remove all contaminated clothing immediately. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources of ignition. Avoid contact with skin and eyes.
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Precautions To Be Taken in Storing: Storage conditions Close containers in such a way to enable internal pressure to escape (e.g. excess pressure valve). No metal containers. Keep tightly closed. Store protected from light. Keep away from combustible materials, heat, sparks, and open flame. Recommended storage temperature see product label. Storage class (TRGS 510): 5.1B: Oxidizing hazardous materials Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Moisture sensitive. Storage class 510) Protect against light. Store in original container. Recommended storage temperature: 2 - 8 deg.C.

Other Precautions: Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7722-84-1	Hydrogen peroxide	PEL: 1 ppm	TLV: 1 ppm	No data.
64-19-7	Acetic acid	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.
79-21-0	Peracetic acid	No data.	STEL: 0.4 ppm	No data.
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	No data.	No data.	No data.
7664-93-9	Sulfuric acid	PEL: 1 mg/m3	TLV: 0.2 mg/m3 (thoracic fraction) STEL: (3 mg/m3)	No data.

Respiratory Equipment (Specify Type): Respiratory protection is required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory:

Eye Protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Protective Gloves: This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves. Full contact. Material: Latex gloves Minimum layer thickness: 0.6 mm, Break through time: 480 min. Goggles. Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm, Break through time: > 480 min. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar

	with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min. Material: Nature latex/chloroprene. Minimum layer thickness: 0.6 mm Break through time: 30 min. Test method: EN374. Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min.
Other Protective Clothing:	Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering Controls (Ventilation etc.):	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	No data available.
pH:	> 1
Melting Point:	No data.
Boiling Point:	212.00 F (100.0 C)
Flash Pt:	No data.
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	22 MM_HG at 25.0 C (77.0 F)
	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	1.1 at 25.0 C (77.0 F)
Solubility in Water:	No data.
Saturated Vapor Concentration:	No data.
Octanol/Water Partition Coefficient:	No data.
VOC / Volume:	7.0000 %W
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.
Explosive Properties:	No data available.
Information on other hazards:	Oxidizing potential. No data available.
Information with regard to primary physical hazard:	

10. Stability and Reactivity

Reactivity:	No data available.
Stability:	Unstable [<input type="checkbox"/>] Stable [<input checked="" type="checkbox"/>]
Conditions To Avoid - Instability:	Heat- and light sensitive. Heating in air. Heat, flames and sparks. No data available.
Incompatibility - Materials To Avoid:	Lead, bronze, Iron, Copper, Brass, silver, Metals, metal alloys. Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Peroxides, permanganates, potassium permanganate, Amines, Alcohols, Nitric acid, Strong reducing agents, Strong bases, Heavy metal salts, Strong oxidizing agents.
Hazardous Decomposition or Byproducts:	In the event of fire: see section 5. No data available. Hazardous decomposition products formed under fire conditions. -Carbon oxides. Sulphur oxides, Other decomposition products:
Possibility of Hazardous Reactions:	Will occur [<input type="checkbox"/>] Will not occur [<input checked="" type="checkbox"/>]
Conditions To Avoid - Hazardous Reactions:	Risk of explosion with: Risk of ignition or formation of inflammable gases or vapors with: hydrazine and derivatives, combustible materials, Ether anhydrides, Oxidizing agents, organic substances. Peroxides, permanganates, MOSTORGANIC SOLVENTS. organic nitro compounds. Brass, Alkali metals, alkali salts, alkaline earth metals, Metals, metallic oxides. metallic salts, nonmetals (e.g. carbon, nonmetallic oxides, Aldehydes, Alcohols. Amines, Ammonia, acids, strong alkalis. acetaldehyde, acetone, Activated charcoal, lead, Powdered metals, acetic acid. acetic anhydride, potassium iodide, potassium permanganate, methanol, Sodium, oils, Phosphorus, oxides of phosphorus, concentrated sulfuric acid, Heavy metals, powdered silver, alkali hydroxides, Catalyst. Exothermic reaction with: Nitric acid, zinc oxides. Metallic salts phenol with metal catalysts. No data available. Corrosive in contact with metals.

11. Toxicological Information

Toxicological Information:	No data available. Reproductive toxicity. Aspiration hazard: ADDITIONAL INFORMATION. Dizziness, Unconsciousness, Diarrhea, Nausea, Vomiting, Headache, Convulsions. muscle twitching, Insomnia, Shock. Irritation and corrosion. Conjunctivitis. Risk of serious damage to eyes. Systemic effects: Headache. Vomiting. Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice. Components. Hydrogen peroxide, Acute toxicity. Inhalation: Corrosive. to. Respiratory system. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Blood:Other changes. Germ cell mutagenicity: Dermal. Specific target organ toxicity - single exposure: Specific target organ toxicity - repeated exposure:
Irritation or Corrosion:	Skin corrosion/irritation. After long-term exposure to the chemical: Causes skin burns. Conjunctivitis. No data available. Causes serious eye damage. Result: Tumorigenic:Tumors at site or application. Causes severe burns. Eyes: Rabbit. Serious eye damage/eye irritation: no data available.
Sensitization:	Respiratory or skin sensitization: No data available.

