1. IDENTIFICATION

PRODUCT NAME: MIXMATE SANITATION SYSTEM DISINFECTANT 256 (MIXMATE O)
RECOMMENDED USE: CLEANER, DISINFECTANT, DETERGENT, VIRUCIDE, FUNGICIDE, MILDEWSTAT
RESTRICTIONS ON USE: DO NOT USE IN A MANNER INCONSISTENT WITH THE LABEL.
LABEL BRAND: U S CHEMICAL
SDS 5116731M CODE 5116758, 5116791, 5374351, 5497247, 5501584

US CHEMICAL 316 HART STREET WATERTOWN, WI 53094 USA
MEDICAL EMERGENCY: 1-866-923-4913 USA
SPIG EMERGENCY: 1-800-424-9300 USA
PRODUCT INFORMATION: 1-800-558-9566 USA (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)
INTERNET ADDRESS: WWW.USCHEMICAL.COM

2. HAZARD(S) IDENTIFICATION

CLASSIFICATION: FLAMMABLE LIQUIDS (CATEGORY 3),
SKIN CORROSION (CATEGORY 1C), EYE DAMAGE (CATEGORY 1),
CORROSIVE TO METALS (CATEGORY 1)

LABEL ELEMENTS

SIGNAL WORD: DANGER
PICTOGRAMS: FLAME, CORROSION

HAZARD STATEMENTS: FLAMMABLE LIQUID AND VAPOR. CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. MAY BE CORROSIVE TO METALS.

PRECAUTIONARY STATEMENTS: Wear chemical-splash safety goggles, chemical-resistant protective gloves and protective footwear. Avoid contact with eyes, skin and clothing. Do not breathe vapors or mists. Do not eat, drink, or smoke when using this product. Wash hands and affected areas thoroughly after handling. Absorb spillage to prevent material damage. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Mix only with water. Do not mix with chlorine bleach, acids or any other chemical. Can react to release hazardous gases. FIRST AID: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If conscious, dilute by drinking up to a cupful of milk or water as tolerated. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

START FIRST AID. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
EMERGENCY TELEPHONE: 1-866-923-4913

In Case of Fire: Use dry chemical, carbon dioxide or alcohol-resistant foam for extinction.
Storage: Store tightly closed only in original corrosive-resistant plastic container. Store locked up. Keep cool.
Disposal: Dispose of contents in accordance with all federal, state and local applicable laws and regulations.
KEEP OUT OF REACH OF CHILDREN. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
HAZARDS NOT OTHERWISE CLASSIFIED: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENT(S)</th>
<th>CAS #</th>
<th>WEIGHT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE</td>
<td>32426-11-2</td>
<td>6.510</td>
</tr>
<tr>
<td>DIOCTYL DIMETHYL AMMONIUM CHLORIDE</td>
<td>5538-94-3</td>
<td>3.255</td>
</tr>
<tr>
<td>DIDECYL DIMETHYL AMMONIUM CHLORIDE</td>
<td>7173-51-5</td>
<td>3.255</td>
</tr>
<tr>
<td>ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE</td>
<td>68424-85-1</td>
<td>8.680</td>
</tr>
<tr>
<td>ETHYL ALCOHOL</td>
<td>64-17-5</td>
<td>4.77</td>
</tr>
</tbody>
</table>

STATE RIGHT TO KNOW: SEE SECTION 15 FOR STATE RTK CHEMICAL NAMES IN MIXTURE.
4. FIRST-AID MEASURES

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. **IF ON SKIN (OR HAIR):** Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. Wash contaminated clothing before reuse. **IF SWALLOWED:** Rinse mouth. **Do NOT** induce vomiting. If conscious, dilute by drinking up to a cupful of milk or water as tolerated. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. **START FIRST AID. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**

EMERGENCY TELEPHONE: 1-866-923-4913

**MOST IMPORTANT SYMPTOMS / EFFECTS:** Causes severe skin burns and serious eye damage. May cause blindness without immediate first aid. Harmful if swallowed. Causes burns and serious damage to mouth, throat and stomach. Corrosive to all body tissues.

**MEDICAL CONDITIONS AGGRAVATED:** None known.

**NOTE TO PHYSICIAN:** Call 1-866-923-4913 for exposure management assistance.

5. FIRE-FIGHTING MEASURES

**CHEMICAL HAZARDS:** Corrosive. Flammable. Does not sustain combustion. **COMBUSTION PRODUCT HAZARDS:** Oxides of carbon and other fumes. **METHODS:** Select extinguisher and methods based on fire size and type. **EQUIPMENT:** Wear SCBA and full protective gear as conditions warrant. **NFPA RATING:** Health-3/flammability-2/instability-0/special hazard-N.AP. **SUITE XTINGUISHERS:** Dry chemical, CO2, or alcohol-resistant foam. **UNSUITABLE EXTINGUISHERS:** Do not use straight streams of water for class B (liquid) fires. Use of water spray when fighting fire may be inefficient.

6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Eliminate all ignition sources. Evacuate unprotected personnel from area. Wear personal protection including rubber boots. See section 8. Ventilate area if needed. Be careful not to slip. Wash thoroughly after clean-up. **ENVIRONMENTAL PRECAUTIONS:** Eliminate all ignition sources. Prevent spill from entering drain, storm sewer or surface waterway. Prevent water and soil contamination. **CLEAN-UP METHODS:** Small spills may be wiped up and rinsed with water. For larger spills, dike to contain. Pump to labeled container or absorb spillage and scoop up with inert absorbent material. After spill collection, rinse area with water and follow with normal clean-up procedures.

7. HANDLING AND STORAGE

**HANDLE:** Follow all label directions. Instruct personnel about proper use, hazards, precautions, and first aid measures. Avoid inhalation, ingestion, and contact with skin, eyes and clothing. Do not taste or swallow. Remove and wash contaminated clothing and footwear before reuse. Product residue may remain in empty containers. Handle carefully to avoid damaging container. **STORAGE:** Store tightly closed only in original corrosive-resistant plastic container. Store locked up. Keep away from heat, spark and flame. Store at ambient temperatures in a dry area out of direct sunlight. Protect from freezing. Rotate stock regularly. Keep away from food and drink. Keep out of reach of children.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE LIMITS:**
- OCTYL DECYL DIMETHYL AMMONIUM CHLORIDE = NONE
- DIOCTYL DIMETHYL AMMONIUM CHLORIDE OCTYL = NONE
- DIDECYL DIMETHYL AMMONIUM CHLORIDE = NONE
- ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE = NONE
- ETHYL ALCOHOL = 1000 PPM TWA (ACGIH/OSHA)

**ENGINEERING CONTROLS:**
General room ventilation is typically adequate.

**PERSONAL PROTECTION**
- **EYES:** SAFETY GOGGLES (INDIRECT-VENTED OR NON-VENTED) AND AN EYE-WASH STATION.
- **HANDS:** CHEMICAL-RESISTANT PROTECTIVE GLOVES (RUBBER OR NEOPRENE).
- **RESPIRATORY:** SUITABLE RESPIRATOR IF MISTS/VAPORS ARE NOT CONTROLLED BY VENTILATION.
- **FEET:** RUBBER BOOTS DURING SPILL CLEAN-UP AND WHEN EXPOSURE IS POSSIBLE.
- **BODY:** RUBBER FULL-COVER PROTECTIVE CLOTHING WHEN EXPOSURE IS POSSIBLE.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>GREEN LIQUID</td>
</tr>
<tr>
<td>ODOR</td>
<td>NONE ADDED</td>
</tr>
<tr>
<td>pH CONCENTRATE</td>
<td>7.3</td>
</tr>
<tr>
<td>pH @ 2500 PPM SOLUTION</td>
<td>N.AV.</td>
</tr>
<tr>
<td>pH @ USE DILUTION</td>
<td>N.AV.</td>
</tr>
<tr>
<td>PHYSICAL STATE</td>
<td>LIQUID</td>
</tr>
<tr>
<td>RELATIVE DENSITY (WATER)</td>
<td>1.000</td>
</tr>
<tr>
<td>SOLUBILITY (WATER)</td>
<td>COMPLETE</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>N.AV.</td>
</tr>
<tr>
<td>VAPOR DENSITY</td>
<td>N. AV.</td>
</tr>
<tr>
<td>VISCOSITY</td>
<td>NON-VISCOUS</td>
</tr>
<tr>
<td>AUTO-IGNITION TEMPERATURE</td>
<td>N.AV.</td>
</tr>
<tr>
<td>DECOMPOSITION TEMPERATURE</td>
<td>N.AV.</td>
</tr>
<tr>
<td>EXPLOSIVE LIMITS (LEL/UEL)</td>
<td>NONE</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>N.AV.</td>
</tr>
<tr>
<td>FLAMMABILITY (SOLID, GAS)</td>
<td>N.AP.</td>
</tr>
<tr>
<td>INITIAL BOILING POINT/RANGE</td>
<td>N.AV.</td>
</tr>
<tr>
<td>MELTING POINT/FREEZING POINT</td>
<td>N.AV.</td>
</tr>
<tr>
<td>ODOR THRESHOLD</td>
<td>N.AV.</td>
</tr>
<tr>
<td>PARTITION COEFF. (N-OCTANOL/WATER)</td>
<td>N.AV.</td>
</tr>
<tr>
<td>OTHER</td>
<td>N.AV.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**REACTION:** MIXING WITH INCOMPATIBLES CAN RELEASE HEAT + HAZARDOUS GASES.

**CHEMICAL STABILITY:** STABLE.

**POSSIBILITY OF HAZARDOUS REACTIONS:** SEE REACTIVITY. WILL NOT POLYMERIZE.

**CONDITIONS TO AVOID:** AVOID HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES.

**MATERIALS TO AVOID:** BLEACH, METAL AND OTHER CLEANERS. MIX ONLY WITH WATER.

**HAZARDOUS DECOMPOSITION PRODUCTS:** NONE UNDER NORMAL CONDITIONS.

11. TOXICOLOGICAL INFORMATION

**ROUTES OF EXPOSURE:** EYES, SKIN, INGESTION, INHALATION.

**INFORMATION ON ROUTES OF EXPOSURE:** NO LC50 TEST DATA ON MIXTURE.

**ACUTE EFFECTS /SYMPTOMS:** CORROSIVE TO ALL BODY TISSUES.
- **EYES:** CAUSES SERIOUS EYE DAMAGE. MAY CAUSE PAIN, REDNESS AND WATERING.
- **SKIN:** CAUSES SEVERE SKIN BURNS. MAY CAUSE DELAYED PAIN, REDNESS AND BLISTERING.
- **INGESTION:** CAUSES BURNS AND SERIOUS DAMAGE TO MOUTH, THROAT AND STOMACH.
- **INHALATION:** MAY CAUSE CORROSIVE EFFECTS TO NOSE, THROAT, AND RESPIRATORY SYSTEM.

**CHRONIC / OTHER EFFECTS:** NO REPORTABLE GERM CELL MUTAGENS, SKIN SENSITIZERS, RESPIRATORY SENSITIZERS, REPRODUCTIVE TOXINS OR ASPIRATION HAZARDS.

**SPECIFIC TARGET ORGANS (SINGLE/REPEATED):** NONE KNOWN.

**NUMERICAL MEASURES OF TOXICITY:** ACUTE ORAL LD50 (RAT) = 2146 MG / KG

**CARCINOGENS:** NO REPORTABLE ACGIH, IARC, NTP, OR OSHA CARCINOGENS.
12.  ECOLOGICAL INFORMATION

ECOTOXICITY / CHEMICAL FATE: NOT AVAILABLE.

13.  DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: UNDILUTED PRODUCT IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS AS A FLAMMABLE WASTE (RCRA CLASS D001). DISPOSE OF CONTENTS IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL APPLICABLE LAWS AND REGULATIONS.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. CONTAINER DISPOSAL – Nonrefillable container. Do not reuse or refill this container. After rinsing container, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. RINSING INSTRUCTIONS – Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

14.  TRANSPORT INFORMATION

DOT / TDG: UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL, QUATERNARY AMMONIUM COMPOUNDS), 3 (8), III, LTD. QTY.
DOT DESCRIPTION FOR PACK SIZE OVER 5 L: UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL, QUATERNARY AMMONIUM COMPOUNDS), 3 (8), III
IMDG DESCRIPTION FOR PACK SIZE UNDER 5 L: UN2924, FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ETHANOL, QUATERNARY AMMONIUM COMPOUNDS), 3 (8), III, LTD. QTY., (54C (cc))

15.  REGULATORY INFORMATION

EPA CERCLA RQ: NO EPA REGISTERED: YES (1839-167-7546) 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: DANGER. KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles or face shield), clothing, and gloves when handling. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse. PHYSICAL OR CHEMICAL HAZARDS: Combustible. Do not use or store near heat or open flame.
OSHA HAZARDOUS: YES PHOSPHORUS CONTENT: 0.00% PROPOSITION 65: NO SARA 311/312 HAZARDS: ACUTE, FIRE SARA 313 CHEMICALS: NO STATE RIGHT TO KNOW: EPA EXEMPT TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY. VOC: 4.77% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

16.  OTHER INFORMATION

PREPARATION DATE: 4-4-14 PREPARED BY: RC REVISED SECTION: 16 ABBREVIATIONS: N.AV. = NOT AVAILABLE N.AP. = NOT APPLICABLE

NOTICE TO READER

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER’S CONTROL. USER IS RESPONSIBLE FOR EVALUATING ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.