

**MATERIAL SAFETY DATA SHEET**

Date Prepared: 12-24-2003 By Charles D. Werner

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|---|---|--|--------------|
| <b>SECTION 1 - PRODUCT IDENTIFICATION</b>   |   |  |              |
| Distributor Name: Fortech Products by Formula Corporation   | Emergency Phone No: 1-800-228-5635 ext. 059           |  |              |
| Address: 7901 Second Ave South Seattle, WA  |   |  |              |
| Trade Name: <b>DISINFECTANT 256AK</b>   | Product Type: Concentrated Disinfectant Cleaner       |  |              |
| Formula Code: FLDMAKRX  | Formula:  |  |              |
| <b>SECTION 2 - HAZARDOUS INGREDIENTS</b>  |   |  |              |
| Chemical Name/Common Name:  | CAS NO.   | PERCENT (optional)                                       | TLV (Source) |
| Quaternary Ammonium Chloride Compounds  |   | 21 - 22  | NE           |
| Nonionic surfactant   |   | < 10   | NE           |
| Sodium EDTA LD <sub>50</sub> (oral-rat) 3030 mg/kg, LD <sub>50</sub> (skin-rab) > 5000 mg/kg  | 64-02-8   | < 4  | NE           |
| No toxic chemical subject to the reporting requirements of section 313 of Title III   |   |  |              |
| <b>SECTION 3 - PHYSICAL DATA</b>  |   |  |              |
| Boiling Point: (F) 212 (100 F) Freeze Point 32 F (0 F)  | Specific Gravity: (H <sub>2</sub> O = 1.0) 1.01       | pH: 6 - 7  |              |
| Vapor Pressure: (mm/Hg) Not Determined  | Vapor Density: Heavier than air                       |  |              |
| Solubility In Water: Complete   | Coefficient of water/oil: Not available               |  |              |
| Evaporation Rate (Vs ether) Slower  |   |  |              |
| Appearance and Odor: Liquid, non-viscous, RED color fresh fragrance   | Odor threshold: Not available                         |  |              |
| <b>SECTION 4 - FIRE AND EXPLOSION HAZARD DATA</b>   |   |  |              |
| Flash Point (T.C.C.): 130 F (SETA) over 200 F   | PMCC  |  |              |
| Extinguishing Media: nonflammable and non-explosive No special procedures required.   |   |  |              |
| Special Fire Fighting Procedures: cool fire exposed containers with spray, Must wear MSHA/NIOSH approved self contained breathing apparatus.  |   |  |              |
| Unusual Fire and Explosion Hazards: NOTHING SPECIAL.  |   |  |              |
| <b>SECTION 5 - REACTIVE DATA</b>  |   |  |              |
| Stability: Stable   | Incompatibility: Strong oxidizers or reducing agents. |  |              |
| Hazardous Decomposition Products: Toxic Hydrogen Chloride fumes, oxides of carbon and nitrogen.   |   |  |              |
| <b>SECTION 6 - HEALTH HAZARDS</b>   |   |  |              |
| Threshold Limit Value - Product (See Section 2 for Ingredient TLV)  |   | None Established   |              |
| Primary Routes of Exposure:   | Eye - yes   | Skin-yes   | Oral-yes     |
|   |   | Inhalation-no  | Other        |
| Signs and Symptoms of Over-exposure (Acute): EYES: Corrosive. Contact with concentrate will severely irritate or burn the eyes. SKIN: Corrosive. Exposure will irritate the skin. INGESTION: May be fatal. Ingestion of this product will result in pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory convulsions.                           |   |  |              |
| Signs and Symptoms of Over-exposure (Chronic): Undetermined   |   |  |              |
| Medical Conditions Aggravated by Over-exposure: Persons with pre-existing skin disorders, eye problems, impaired respiratory function may more susceptible to effects.  |   |  |              |
| Carcinogen or Suspect Carcinogen Ingredients: NTP - NO IARC - NO OSHA - NO NONE   |   |  |              |
| <b>SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES</b>   |   |  |              |
| Eyes: Flush with immediately with lots of running water for at least 15 minutes holding eyelids open. Get medical attention.  |   |  |              |
| Skin: Flush skin with water. Remove contaminated clothing & shoes. Wash before reuse.   |   |  |              |
| Ingestion: If vomiting occurs spontaneously, keep victims head below his hips to prevent his breathing vomitus into lungs. Drink 1 to 8 glasses of water or milk to dilute. Avoid alcohol. Call physician or poison control center immediately, treat symptomatically. Do not give anything by mouth to an unconscious or convulsing person. NOTE to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. |   |  |              |
| Inhalation: Get to fresh air.   |   |  |              |
| <b>SECTION 8 - SPECIAL PROTECTION INFORMATION</b>   |   |  |              |
| Respiratory Protection: not normally required   |   | Ventilation Requirements: Adequate ventilation required. |              |
| Protective Gloves: Required.  |   | Eye Protection: Glasses Required -- goggles recommended. |              |
| <b>SECTION 9 - SPILL OR LEAK PROCEDURES</b>   |   |  |              |
| Steps to be Taken if Released or Spilled: For small spills, mop or wipe up and contain. For large spills, contain by diking with absorbent material and contain. Rinse with water.  |   |  |              |
| Waste Disposal Methods: Note that the contaminants of the product must be consider when disposing. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures and comply with them.   |   |  |              |
| <b>SECTION 10 - STORAGE AND HANDLING INFORMATION</b>  |   |  |              |
| Precautions to be Taken in Handling and Storage: Nothing special is required. Do not mix chemicals. Keep container tightly closed when not in use.  |   |  |              |



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EYES - Liquid and mists will irritate and may burn the eyes. SKIN - No irritation is likely after brief contact but may be irritating after prolonged contact.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Skin absorption risks unknown.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE**

Swallowing large quantities may cause nausea and vomiting.

**HEALTH HAZARDS (ACUTE AND CHRONIC)**

CHRONIC - No specific information available.

**CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No**

The components of this product are not considered to be carcinogens by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

None reported.

**EMERGENCY AND FIRST AID PROCEDURES**

INHALATION - Remove to fresh air. Give artificial respiration if not breathing. EYES - Flush immediately with large amounts of water for at least 15 minutes holding eyelids open. Get medical attention. SKIN - Immediately wash skin with lots of soap and water. Remove contaminated clothing & shoes. Get medical attention. INGESTION - If conscious, drink 2 glasses of water. Consult a physician or poison control center immediately. Treat symptomatically. Do not give anything by mouth to an unconscious or convulsing person.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Small spills dilute with water, mop or wipe up and contain. For large spills, contain by diking with absorbent material. Keep material out of sewers, storm drains, surface waters, and soil.

**WASTE DISPOSAL METHOD**

Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste. Dispose of contaminated product and materials used in clean up in a manner approved for this material and the contaminant. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures and comply with them.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store in a dry, well ventilated place away from incompatible materials. Keep container tightly closed when not in use. Store at temperatures above the solutions freezing point to remain liquid. Do not use pressure to empty container.

**OTHER PRECAUTIONS**

Empty containers usually still hold residues of material and vapors. These must be considered hazardous and disposed of in accordance with proper handling procedures prescribed for hazardous chemicals. When mixing with water, always add this product to water and stir.

**SECTION VIII - CONTROL MEASURES**

**RESPIRATORY PROTECTION**

In the absence of adequate ventilation an approved respirator may be required.

**VENTILATION**

Be sure to provide adequate ventilation in all working areas at all time. In general, health problems could result from repeated and prolonged exposure to chemical vapors.

**PROTECTIVE GLOVES**

None required with normal use.

**PROTECTION**

required under normal use conditions. Eye protection required if used overhead or misting or spraying.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT**

Where gross eye and skin contact may occur use and wear appropriate clothing, rubber boots with pants on the outside, and rubber gloves.



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**WORK/HYGIENIC PRACTICES**

Standard hygienic practices must be observed when handling all chemicals.

**SECTION IX - DISCLAIMER**

Information contained herein is furnished without warranty of any kind. Employees should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and for the safety and health of employees.