1. IDENTIFICATION

Product Identifier
Product Name
F-205A 710M Disinfectant/Deodorant

Other means of identification
Product Code
F-205A

EPA Reg. No.
10324-117-37697

Recommended use of the chemical and restrictions on use
Recommended Use
Disinfect, deodorize, and sanitize hard non-porous surfaces.

Details of the supplier of the safety data sheet
Missouri Vocational Enterprises
2727 Highway K
Bonne Terre, MO 63628
Phone: (573) 358-5516

Emergency Telephone Number
INFOTRAC 1-800-535-5053 (North America)
1-352-323-3500 (International)

2. HAZARDOUS IDENTIFICATION

Signal Word DANGER

<table>
<thead>
<tr>
<th>Classification</th>
<th>Hazard Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity, oral</td>
<td>3</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>1</td>
</tr>
</tbody>
</table>

Health Hazard Statement(s)
H290 – May be corrosive to metals.
H301 – Toxic if swallowed.
H302 – Harmful if swallowed.
H314 – Causes severe skin burns and eye damage.
H318 – Causes serious eye damage.

Hazard Pictogram(s)

<table>
<thead>
<tr>
<th>Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
</tr>
<tr>
<td>Flammability</td>
</tr>
<tr>
<td>Reactivity</td>
</tr>
<tr>
<td>PPE</td>
</tr>
</tbody>
</table>

Precautionary Statement(s)
P210 – Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 – Keep container tightly closed.
P234 – Keep only in original container.
P260 – Do not breathe mist or vapor.
P264 – Wash face, hands and any exposed skin thoroughly after handling.
P270 – Do not eat, drink, or smoke when using this product.
P273 – Avoid release to the environment.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+P330+P331 – IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P303+P361+P353 – IF ON SKIN [or hair]: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P320 – Specific treatment is urgent (see this label).
P363 – Wash contaminated clothing before reuse.
P403+P233 – Store in a well-ventilated place. Keep container tightly closed.
P403+P235 – Store in a well-ventilated place. Keep cool.
P405 – Store locked up.
P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.

**Potential Health Effects**

**Skin Contact**
May cause severe skin burns.

**Eye Contact**
May cause serious eye damage.

**Inhalation**
May be fatal when inhaled.

**Ingestion**
May be toxic if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENT

<table>
<thead>
<tr>
<th>Chemical Name/Pure Substance</th>
<th>CAS #</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octyl Decyl Dimethyl Ammonium Chloride</td>
<td>32426-11-2</td>
<td>3</td>
</tr>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride</td>
<td>7173-51-5</td>
<td>1.5</td>
</tr>
<tr>
<td>Dioctyl Dimethyl Ammonium Chloride</td>
<td>5538-94-3</td>
<td>1.5</td>
</tr>
<tr>
<td>Alkyl Dimethyl Benzyl Ammonium Chloride</td>
<td>68424-85-1</td>
<td>4.0</td>
</tr>
<tr>
<td>Inert Ingredients</td>
<td>Proprietary</td>
<td>90</td>
</tr>
</tbody>
</table>

**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

**General Advice**
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Eye Contact**
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.

**Skin Contact**
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation**
If inhaled, move person to fresh air and keep in a position comfortable for breathing. Contact a poison control center or doctor immediately for treatment advice.

**Ingestion**
Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Most important symptoms and effects**

**Symptoms**
Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Special Treatment**
If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.
5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water fog, foam, dry chemical powder, carbon dioxide (CO₂)
Unsuitable Extinguishing Media: Do not use water jet as extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical

Irritating and toxic gases or fumes may be released during a fire. Explosive mixtures can form with air. Combustion products are toxic. Solvent vapors can travel to an ignition source and flash back.

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. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

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.

Methods and material for containment and clean up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Clean up
Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. A vapor suppressing foam may be used to reduce vapors. Prevent entry into waterways, sewers, basements, or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

Conditions for safe storage, including any incompatibilities
Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat, or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.
8. EXPOSURE CONTROLS/PERSOAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH STEL</th>
<th>OSHA PEL</th>
<th>NIOSH TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>1000 ppm</td>
<td>1900 mg/m³ 1000 ppm</td>
<td>1900 mg/m³ 1000 ppm</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

Engineering Controls
Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Wear chemical goggles. Use a face shield if splashing is possible.

Skin and Body Protection
Use impervious gloves (rubber or neoprene). Wear suitable protective clothing.

If exposure limits are exceeded or if irritation is experienced, NIOSH approved respiratory protection should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.

Respiratory Protection

General Hygiene Considerations
Eye wash fountain and emergency showers are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Slight organic</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Determined</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>114 °F (47 °C)</td>
<td>ASTM D-56 (Tag Closed Cup)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Estimated slower than ethyl ether</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Liquid- Not applicable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limits</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.93 (8 lbs./gal.)</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>320 cps @ 25 °C</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not available</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under normal conditions.

Conditions to Avoid
Keep away from heat and strong oxidizing agents.

Incompatible materials
Strong oxidizing agents (may result in fire), reducing agents.
Hazardous Decomposition Products
Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

Hazardous Polymerization
Will not occur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
- **Eye contact**: Causes serious eye damage.
- **Skin contact**: Causes severe skin burns.
- **Ingestion**: Toxic if swallowed. Causes digestive tract burns.
- **Inhalation**: May cause respiratory irritation.

Symptoms related to the physical, chemical, and toxicological characteristics
Burning pain and severe corrosive skin damage. Causes serious eye damage.

Carcinogenicity
Not considered to be a carcinogen.

Reproductive toxicity
Not expected to cause reproductive harm.

Acute toxicity
Toxic if inhaled or swallowed.

<table>
<thead>
<tr>
<th>Product</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
<th>Oral LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maquat MQ624M</td>
<td>740 mg/kg</td>
<td>N/A</td>
<td>405 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes severe skin burns and eye damage.

Serious eye damage/irritation
Causes serious eye damage.

Respiratory or skin sensitization
Not expected to cause respiratory or skin sensitization.

Germ cell mutagenicity
Not data to indicate any mutagenicity or genotoxicity.

Specific target organ toxicity
May cause damage to organs.

12. ECOLOGICAL INFORMATION

Ectotoxicity
Very toxic to aquatic organisms.

Persistence and degradability
Biodegradable.

Bioaccumulative potential
Not available.

Other adverse effects
No other adverse environmental effects are expected from this product.

13. DISPOSAL CONSIDERATIONS

Disposal Instructions
Dispose of in accordance with local, regional, national, and international laws and regulations.

Hazardous Waste Code
Waste code should be assigned between the user, the producer, and the waste disposal company.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate 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.

Contaminated Packaging
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.
14. TRANSPORT INFORMATION

**Note**
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT I.D. Number**
UN2920

**DOT Proper Shipping Name**
Corrosive liquids, Flammable, N.O.S., (Quaternary Ammonium Compound, Ethanol)

**DOT Hazard Classes:**
- US DOT: 8 (3)
- Road (ADR): 8 (3)
- Air (ICAO/IMDG): 8 (3)
- Sea (IMO/IMDG): 8 (3)

**Packing Group**
II

**DOT Label**
Corrosive (Flammable)

15. REGULATORY INFORMATION

**U.S. Federal Regulations**
This product is considered a pesticide, and is therefore excluded from United States TSCA Regulations.

- (X) Hazardous   ( ) Non-Hazardous

**SARA TITLE III**
- Section 302/304: Extremely Hazardous Substances: No
- Section 311/312: (40CFR370) Hazardous Categories: Not available.
- Section 313: Contains the following SARA 313 Toxic Release Chemicals: Not regulated.

**CERCLA**
- CERCLA Regulatory: Not regulated

**State Regulations**

<table>
<thead>
<tr>
<th>Component</th>
<th>Pennsylvania RTK</th>
<th>Massachusetts RTK</th>
<th>Rhode Island RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**California Prop 65**
This product may contain the following ingredient(s) known to the state of California to cause cancer, birth defects or other reproductive harm: Benzyl Chloride (trace impurity <10 ppm).

**Inventories**

<table>
<thead>
<tr>
<th>Country(s) or Region</th>
<th>Inventory Name</th>
<th>On Inventory (yes/no)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

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 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.

Issue Date: February 22, 2016
Revision Date: February 22, 2016
Revision Number: 2
Prepared By: Ryan AuBuchon, Chemist I