

# SAFETY DATA SHEET

Date Prepared : 10/20/2016  
SDS No : MicroVacc\_F125S

F125S

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** F125S  
**GENERAL USE:** Sanitizer  
**PRODUCT DESCRIPTION:** Liquid Laundry Sanitizer  
**CHEMICAL FAMILY:** Quaternary ammonium chloride

### MANUFACTURER

MicroVacc LLC  
107 Watercrest Ct.  
Wildwood, MO 63040

### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEM-TEL (Medical and Transportation):** 800-255-3924  
**POISON CONTROL CENTER (Medical):** 800-222-1222

## 2. HAZARDS IDENTIFICATION

### GHS CLASSIFICATIONS

#### Health:

Acute Toxicity (Oral), Category 5  
Skin Corrosion, Category 1C  
Eye Corrosion, Category 1

#### Environmental:

Acute Hazards to the Aquatic Environment, Category 1

### GHS LABEL



Corrosion



Environment

**SIGNAL WORD:** DANGER

### HAZARD STATEMENTS

H318: Causes serious eye damage.  
H314: Causes severe skin burns and eye damage.  
H302: Harmful if swallowed.  
H401: Toxic to aquatic life.  
H290: May be corrosive to metals.

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

P260: Do not breathe fumes, gas, mist, vapors or spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P264: Wash hands thoroughly after handling.  
P273: Avoid release to the environment.  
P102: Keep out of reach of children.  
P234: Keep only in original packaging.

#### Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P310: Immediately call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

P391: Collect spillage.

**Storage:**

P405: Store locked up.

**Disposal:**

P501: Dispose of contents/container according to all local, state and Federal regulations.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Clear Liquid

**IMMEDIATE CONCERNS:** Causes irreversible eye damage and skin burns.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Corrosive, contact causes severe eye burns.

**SKIN:** Contact causes severe skin irritation and possible burns.

**SKIN ABSORPTION:** Harmful if absorbed through skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Mist is irritating to nose, throat and lungs.

**REPRODUCTIVE TOXICITY**

**REPRODUCTIVE EFFECTS:** None known.

**TERATOGENIC EFFECTS:** None known.

**CARCINOGENICITY:** None known.

**MUTAGENICITY:** None known.

**ROUTES OF ENTRY:** Eye, skin, ingestion.

**CANCER STATEMENT:** None

**SENSITIZATION:** None known.

**WARNING CAUTION LABELS:** Irritant

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Octyl decyl dimethyl ammonium chloride	3	32426-11-2
Didecyl dimethyl ammonium chloride	1.5	7173-51-5
Diocetyl dimethyl ammonium chloride	1.5	5538-94-3
Alkyl dimethylbenzyl ammonium chloride(C12-C16)	4	68424-85-1
Water	~ 90	7732-18-5

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with 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 immediately.

**SKIN:** Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

**INGESTION:** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

**INHALATION:** Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Severe burning sensation, damage marked by burns.

**SKIN:** Burning sensation, redness.

**INGESTION:** Irritation of mouth, throat, along with stomach upset, vomiting.

**INHALATION:** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

**ACUTE EFFECTS:** Corrosive to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.

**NOTES TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** None

**EXTINGUISHING MEDIA:** Not required.

**EXPLOSION HAZARDS:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products may include: Carbon dioxide, Carbon monoxide, nitrogen oxides.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**LARGE SPILL:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Avoid discharges into open waterways.

**LAND SPILL:** Avoid discharge to soil.

**AIR SPILL:** NA = Not Applicable

**GENERAL PROCEDURES:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

**RELEASE NOTES:** Product is toxic to fish and aquatic invertebrates.

**SPECIAL PROTECTIVE EQUIPMENT:** Eye protection, rubber gloves, rubber boots to protect feet.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Do not contaminate water, food, or feed by storage or disposal.

**HANDLING:** Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking or using toilet facilities.

**STORAGE:** Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, and water sources. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**STORAGE TEMPERATURE:** Store at ambient temperatures.

**STORAGE PRESSURE:** Store at ambient atmospheric pressure.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** No special requirements.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Chemical splash goggles.

**SKIN:** Rubber or other chemical resistant gloves.

**RESPIRATORY:** A respirator is not needed under normal and intended conditions of product use.

**PROTECTIVE CLOTHING:** No special requirements.

**WORK HYGIENIC PRACTICES:** Wash with soap and water after handling. Do not eat, drink or smoke while using product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Characteristic.

**ODOR THRESHOLD:** Not Established

**COLOR:** Water Clear

**pH:** 6.0 to 9.0

**PERCENT VOLATILE:** >90  
**FLASH POINT AND METHOD:** None  
**FLAMMABLE LIMITS:** N/A  
**AUTOIGNITION TEMPERATURE:** NA = Not Applicable  
**VAPOR PRESSURE:** 20 mm Hg at 20°C (68°F)  
**VAPOR DENSITY:** ~ 1 Air = 1  
**BOILING POINT:** 212° F; 100° C  
**FREEZING POINT:** 32° F; 0° C  
**THERMAL DECOMPOSITION:** Not Available  
**SOLUBILITY IN WATER:** Complete  
**EVAPORATION RATE:** (Water =1) 1.0  
**DENSITY:** 8.345 at 20°C (68°F)  
**SPECIFIC GRAVITY:** 0.98 to 1.00 grams/ml. at 20°C (68°F)  
**VISCOSITY:** Water thin.  
**(VOC):** None

## 10. STABILITY AND REACTIVITY

**REACTIVITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**CONDITIONS TO AVOID:** Not Established  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None Expected.  
**INCOMPATIBLE MATERIALS:** Strong oxidizers

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)
Octyl decyl dimethyl ammonium chloride	200 to 2000 mg/kg (rat)	Not available
Didecyl dimethyl ammonium chloride	268 mg/kg (mouse)	2730 mg/kg (rabbit)
Diocetyl dimethyl ammonium chloride	50 mg/kg (mouse)	Not available
Alkyl dimethylbenzyl ammonium chloride(C12-C16)	450 mg/kg (rat)	3342 mg/kg (rabbit)

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg male and female rabbits.

**ORAL LD<sub>50</sub>:** > 1890 mg/kg Male and Female rats.

**INHALATION LC<sub>50</sub>:** Not Established

**SKIN CORROSION/IRRITATION:** Corrosive

**RESPIRATORY OR SKIN SENSITISATION:** Not Established

**GERM CELL MUTAGENICITY:** No known significant effects or critical hazards.

### CARCINOGENICITY

**IARC:** No products were found.

**REPRODUCTIVE TOXICITY:** No known significant effects or critical hazards.

**STOT-SINGLE EXPOSURE:** No known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Not Established

**ECOTOXICOLOGICAL INFORMATION:** This product is toxic to fish and aquatic invertebrates.

**BIOACCUMULATION/ACCUMULATION:** Not Established

**DISTRIBUTION:** Not Established

**AQUATIC TOXICITY (ACUTE):** Not Established

**CHEMICAL FATE INFORMATION:** Not Established

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Attempt to use product completely in accordance with intended use. 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 your local office, or the nearest EPA regional office for guidance.

**FOR LARGE SPILLS:** Consult with local and state authorities for large volume disposal.

**EMPTY CONTAINER:** Triple rinse container promptly after emptying. Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain and repeat. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not regulated.

**PLACARDS:** None

**LABEL:** None

#### AIR (ICAO/IATA)

**SHIPPING NAME:** Not regulated.

#### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not regulated.

### 15. REGULATORY INFORMATION

#### UNITED STATES

##### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Health - Acute

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

**313 REPORTABLE INGREDIENTS:** No listed substance

##### 302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** No listed substance

##### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** Not Available

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA REGULATORY:** All ingredients are listed on the TSCA Chemical Inventory.

**CALIFORNIA PROPOSITION 65:** No listed substance

**RCRA STATUS:** Not Available

**CARCINOGEN:** No listed substance

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** Regulated

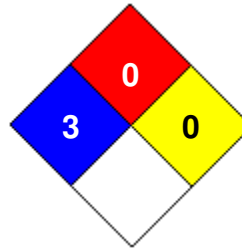
### 16. OTHER INFORMATION

**Date Prepared:** 10/20/2016

### HMIS RATING

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D

### NFPA CODES



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