

# Safety Data Sheet

Issue Date 22-Jun-2014

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Version 1.0

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Verticide

### Other Means of Identification

**Product Code** 571100

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Disinfectant concentrate. For industrial use.

### Details of the Supplier of the Safety Data Sheet

Osceola Supply  
PO Box 13503  
Tallahassee, FL 32317

### Emergency Telephone Number

**Company Phone Number** Phone: (850) 580 - 9800  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Blue Green

**Physical State** Liquid

**Odor** Lemon

### Classification

Acute toxicity: oral	Category 4
Acute Toxicity: dermal	Category 5
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1
Reproductive Toxicity	Category 1 Sub-category A
Aquatic Toxicity: Acute	Category 2
Flammable Liquid	Category 3

### Signal Word

Danger

### Hazard Statements

Harmful if swallowed.  
May be harmful in contact with skin.  
Causes severe skin burns and eye damage.  
May damage fertility or the unborn child if ingested.  
Toxic to aquatic life.  
Flammable liquid and vapor.



### **Precautionary Statements - Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe spray or mists.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

Avoid release to the environment.

Keep container tightly closed and away from heat/sparks/open flames/hot surfaces. — No smoking.

Ground/bond container and receiving equipment, taking precautionary measures against static discharge.

Use only non-sparking tools and explosion-proof equipment.

### **Precautionary Statements - Response**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical advice/attention.

Specific treatment: Remove from exposure and treat symptoms.

IN CASE OF FIRE: Use water fog, foam, dry chemical powder, or carbon dioxide (CO<sub>2</sub>).

### **Precautionary Statements - Storage**

Store locked up.

Store in a well-ventilated place. Keep cool.

### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, and/or national regulations.

### **Other Hazards**

None known.

### **Unknown Acute Toxicity**

None known.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No</b>	<b>Weight-%</b>
Water	7732-18-5	60-100
Alkyl Dimethyl Benzyl Ammonium Chloride (C <sub>12-16</sub> )	68424-85-1	5-10
Dialkyl Dimethyl Ammonium Chlorides	68424-95-3	5-10
Didecyl Dimethyl Ammonium Chloride	7173-51-5	1-5
Diocetyl Dimethyl Ammonium Chloride	5538-94-3	1-5
Tetrasodium EDTA	64-02-8	1-5
Poly(Oxy-1,2-Ethanediy),Alpha-Undecyl-Omega-Hydroxy-	34398-01-1	1-5
Ethanol	64-17-5	1-5

\*\*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**

### **First Aid Measures**

#### **Eye Contact**

Causes burns and may result in permanent injury to eyes including blindness.

Immediately flush eyes with water for 15-20 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**

Causes corrosive burns. Brief exposure may cause irritation and defatting of the skin.

Exposures not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through skin. Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

**Inhalation**

Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Harmful if inhaled. If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison center or doctor for further treatment advice.

**Ingestion**

Ingestion can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death. Harmful if swallowed. Call a poison control center or doctor immediately for further 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.

**Chronic**

Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

**Most Important Symptoms and Effects**

**Symptoms** Causes burns to the eyes and skin.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to Physician** Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water spray (fog). Carbon dioxide (CO<sub>2</sub>). Water. Foam.

**Unsuitable Extinguishing Media**

Not determined.

**Specific Hazards Arising from the Chemical**

Irritating and toxic gases or fumes may be released during a fire.

**Hazardous Combustion Products**

Combustion products are toxic.

**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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal Considerations, for additional information. See Section 12 for additional Ecological Information.

**Methods and Material for Containment and Cleaning Up**

**Methods for Containment** Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

**Methods for Clean-Up** Contain and collect with an inert absorbent and place into an appropriate container for disposal. Rinse area with clean water and dry before permitting traffic.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling****Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. For industrial and commercial use only. Avoid contact with skin, eyes or clothing.

**Conditions for Safe Storage, Including Any Incompatibilities****Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from freezing. Keep out of the reach of children.

**Incompatible Materials**

None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	1000ppm	1000ppm	1000ppm

**Appropriate Engineering Controls****Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. Eyewash stations. Showers.

**Individual Protection Measures, such as Personal Protective Equipment****Eye/Face Protection**

Eye protection should be used when splashing may occur.

**Skin and Body Protection**

Wear protective gloves when handling this product.

**Respiratory Protection**

Under normal conditions, respirator is not normally required. Avoid breathing vapors.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on Basic Physical and Chemical Properties**

Physical State	Liquid	Odor	Lemon
Appearance	Clear	Odor Threshold	Not determined
Color	Blue Green		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH (concentrate)	7.0-7.5	
Melting Point/Freezing Point	Approximately 32°F	
Boiling Point/Boiling Range	Approximately 212°F	
Flash Point	130°F (54.4°C)	PMCC
Evaporation Rate	Estimated slower than ethyl ether	
Flammability (Solid, Gas)	Liquid-not applicable	
Upper Flammability Limits	Not applicable	
Lower Flammability Limit	Not applicable	
Vapor Pressure	Not determined	
Vapor Density	Estimated to be heavier than air	
Specific Gravity	1.02	
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	

**Explosive Properties**  
**Oxidizing Properties**

Not an explosive  
Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to Avoid

Keep out of reach of children. Keep from freezing. Keep away from heat and strong oxidizing agents.

### Incompatible Materials

Strong oxidizing agents (may result in fire), reducing agents, anionic surfactants.

### Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide, carbon dioxide, oxides of nitrogen, ammonia, and other low molecular weight hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Product Information

<b>Eye Contact</b>	Avoid contact with eyes. Corrosive
<b>Skin Contact</b>	Avoid contact with skin. Corrosive
<b>Inhalation</b>	Avoid breathing vapors or mists.
<b>Ingestion</b>	Do not taste or swallow.
<b>Chronic Effects</b>	Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Product as a whole	Not determined	-	-

### Information on Physical, Chemical and Toxicological Effects

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical Measures of Toxicity

Not determined

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Product as a whole	No data available for this product, but it is considered toxic to fish.			

**Persistence/Degradability**

Not expected to persist.

**Bioaccumulation**

Not expected to bioaccumulate.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in the SDS incomplete, inaccurate or otherwise inappropriate.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION****Note**

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

**DOT**

UN1903, Disinfectant Liquid Corrosive, NOS (Containing Quaternary Ammonium Compound), 8, PGIII.

This product can ship as a "Consumer Commodity" or "Limited Quantity" and reclassified as ORM-D if packaged in <1.3 gallons (5.0 Liter) containers. Non Hazardous

**IATA****IMDG****15. REGULATORY INFORMATION****International Inventories**

Not determined

**Legend:**

*TSCA* - United States Toxic Substances Control Act Section 8(b) Inventory

*DSL/NDSL* - Canadian Domestic Substances List/Non-Domestic Substances List

*EINECS/ELINCS* - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

*ENCS* - Japan Existing and New Chemical Substances

*IECSC* - China Inventory of Existing Chemical Substances

*KECL* - Korean Existing and Evaluated Chemical Substances

*PICCS* - Philippines Inventory of Chemicals and Chemical Substances

**US Federal Regulations**

**CERCLA**

None Listed

**SARA 311/312 Hazard Categories**

Immediate Fire.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

None known.

**US State Regulations**

None known

**U.S. State Right-to-Know Regulations**

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List:

Chemical Name	State List
Ethanol 64-17-5	AZ, CA, CAP65 (ingestion only), CT, ID, MA, MN, NJ, PA, RI

AZ- Arizona Ambient Air Quality Guidelines

CT- Connecticut Hazardous Air Pollutants

CA- California Director's List of Hazardous Substances

CAP65- California Prop65

FL- Florida Substances List

ID- Idaho Non-Carcinogen Toxic Air Pollutants

IL- Illinois Toxic Air Contaminate- Carcinogenic

MA- Massachusetts Right to Know List

MN- Minnesota Hazardous Substances List

NJ- New Jersey Right to Know List

PA- Pennsylvania Right to Know List

RI- Rhode Island Hazardous Substances List

**FIFRA Label Information:**

This chemical is a pesticide product registered by the United States Environmental 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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

Danger

Corrosive

Causes irreversible eye damage and skin burns.

Harmful if swallowed, inhaled or absorbed through the skin.

This product is toxic to fish and aquatic invertebrates.

**16. OTHER INFORMATION****NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

3

**Flammability**

2

**Physical Hazards**

0

**Personal Protection**

Not determined

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**Revision Note**

Version 1.0

**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 a 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

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materials or in any process, unless specified in the text.

**Keep Out of Reach of Children. For Industrial and Institutional Use Only.**

\*Denotes changes from last version.

**End of Safety Data Sheet**