

## 1. Identification

### Product Identifier

Trade name: Final-San-O Non-Selective Grass and Broadleaf Herbicide  
EPA Reg. Number: 67702-34-70051

### Details of the supplier of the safety data sheet

#### Manufacturer for:

Certis USA, LLC

9145 Guilford Rd, Suite 175

Columbia, MD 21046

Emergency Phone Number: 1-800-255-3724

## 2. Hazard Identification

**Signal Word:** Warning

### Precautionary statements

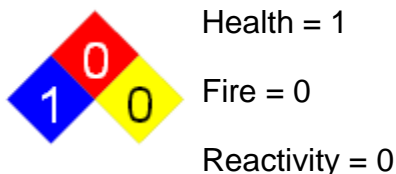
#### Hazards to Humans and Domestic Animals

WARNING: Causes skin irritation. Causes substantial but temporary eye injury. Harmful if inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks, chemical-resistant footwear and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse. Wear protective eyewear (goggles, face shield or safety glasses).

#### Environmental Hazards

This product is hazardous to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

**Classification system:  
NFPA ratings (scale 0-4)**



**HMIS-ratings (scale 0-4)**



**3. Composition/information on ingredients**

**Chemical characterization: Mixture**

<b>Hazardous Components</b>		
<u>Components</u>	<u>% (w/w)</u>	<u>Hazard Information</u>
Ammoniated soap of fatty acids	22%	Eye irritant

**4. First-Aid Measure**

**Description of first aid measures**

**Inhalation:** Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

**Skin:** In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Take off contaminated clothing and was before reuse. If skin irritation occurs: Get medical advice/attention.

**Eye:** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Do not induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

**Most important symptoms and effects, both acute and delayed**

No further relevant information available

**Indication of any immediate medical attention and special treatment needed.**

No further relevant information available.

## 5. Fire-Fighting Measures

### Extinguishing media

**Suitable Extinguishing Media:** Regular foam, carbon dioxide, dry chemical, water.

**Special hazards arising from the substance or mixture:** No further relevant information available.

### Advice for firefighters

**Protective equipment:** No special measures required.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Wear appropriate protective equipment. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions:** Avoid run off to waterways and sewers

### Methods and material for containment and cleaning up

**Containment/Clean-Up Measures:** Stop leak if can do it without risk. Absorb or cover with dry earth, sand or other absorbent materials and transfer to containers.

## 7. Handling and Storage

### Precautions for safe handling

**Handling:** No special precautions are necessary if used correctly.

### Conditions for safe storage, including any incompatibilities

**Storage:** Store in ambient temperature, well-ventilated place away from excessive heat. Keep container closed when not in use. Keep away from incompatible materials.

**Incompatible Materials:** None known

## 8. Exposure Controls/Personal Protection

### Control Parameters

**Components with limited values that require monitoring at the workplace:** Not required.

### Exposure controls

### Personal Protective Equipment



#### Pictograms:

**Respiratory:** In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 26 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

**Eye/Face:** Wear safety goggles

**Hands:** Wear protective gloves

**Skin/Body:** Where extensive dermal exposure may be expected, either a chemical suit or a chemical apron will be needed.

**General Industrial Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, or drinking. Safety shower and eye wash should be available close to work areas.

**Environmental Exposure Controls:** Follow best practice for site management and disposal of waste. Avoid release to the environment.

## 9. Physical and Chemical Properties

**Appearance:** Clear to yellow liquid

**Odor:** Odour of soap and ammonia

**pH:** 8.40 ± 0.10

**Boiling Point:** Not determined

**Melting Point:** Not determined

**Flash Point:** Non combustible

**Flammability:** Product is not flammable

**Decomposition Temperature:** Not determined

**Heat of Decomposition:** Not determined

**Danger of Explosion:** Product does not present an explosion hazard

**Upper explosion limits:** Not determined

**Lower explosion limits:** Not determined

**Vapor Pressure:** Not applicable

**Vapor Density:** Not applicable

**Evaporation Rate:** Not applicable

**Density @ 20°C (68°F):** 1.00 ± 0.03 g/mL

**Water Solubility:** Soluble

**Partition coefficient (n-octanol/water):** Not determined

**Viscosity:** 1.2 ± 0.4 cPs (Brookfield LVF)

## 10. Stability and Reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under normal temperatures and pressures.

**Possibility of Hazardous Reactions:** No dangerous reactions known.

**Conditions to avoid:** Exposure to excessive heat.

**Incompatible Materials:** None known

**Hazardous Decomposition Products:** CO<sub>2</sub>, CO, NH<sub>3</sub>, NO<sub>x</sub>

## 11. Toxicological Information

### Information on toxicological effects

**Acute toxicity:** LD<sub>50</sub> (oral) (rat) >5000 mg/kg; LD<sub>50</sub> (dermal) >5000 mg/kg

### Routes of Entry

**Skin:** May cause irritation

**Eyes:** Can be expected to cause moderate irritation.

**Ingestion:** May cause irritation.

**Inhalation:** Can be expected to cause irritation if fine droplets are inhaled.

### Carcinogenic Categories

**IARC (International Agency for Research on Cancer):** Substance is not listed

**NTP (National Toxicology Program):** Substance is not listed

## 12. Ecological Information

**Toxicity:** No further relevant information available.

**Persistence and Degradability:** No further relevant information available.

**Mobility in Soil:** No further relevant information available.

**Other Adverse Effects:** No studies have been found

## 13. Disposal Considerations

### Waste Treatment Methods

**Product Waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

**Packaging Waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

## 14. Transport Information

**DOT Classification:** Not regulated by US DOT Highway regulations.

**U.S. Surface Freight Classification:** NMFC item 155050, LTL Class: 70 Herbicide or NMFC item 50320 Sub 2, LTL Class 60

**UN Number:** Non-Hazardous. Not regulated.

**IMDG Class (sea):** Non-Hazardous. Not regulated.

**IATA Class (air):** Non-Hazardous. Not regulated.

**Marine Pollutant:** No.

**Packing Group:** Not regulated.

**Hazard Label(s):** Non-Hazardous. Not regulated.

**ADR Class (road):** Not regulated.

**Proper Shipping Name(s):** Not regulated.

**Reportable Quantity:** None

## 15. Regulatory Information

### Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

**SARA:** N/A

**Section 355 (Extremely Hazardous Substance):** Substance is not listed.

**Section 313 (Specific Toxic Chemical Listings):** Substance is not listed.

**TSCA (Toxic Substance Control Act):** Substance is not listed.

### Proposition 65

**Chemicals Known to Cause Cancer:** Substance is not listed.

**Chemicals Known to Cause Reproductive Toxicity for Females:** Substance is not listed.

**Chemicals Known to Cause Reproductive Toxicity for Males:** Substance is not listed.

**Chemicals Known to Cause Developmental Toxicity:** Substance is not listed.

**National Regulations:** Substance is not listed.

**State Right to Know:** Substance is not listed.

## 16. Other Information

**Last Revision Date:** May 21, 2015

**Preparation Date:** May 21, 2015

**Disclaimer/Statement of Liability:** The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.