

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)
Tropicare Plant Leaf CleanerNote: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Tropical Ornamentals	Emergency Telephone Number 1-800-327-6293, #1
Address (Number, Street, City, State, and ZIP Code) 5346 Woodland Drive	Telephone Number for Information 1-800-327-6293, #1
Delray Beach, Florida 33484	Date Prepared 10/31/88
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Mono Ammonium Citrate CAS #77-92-9 HOC (CH ₂ CO ₂ H) ₂ CO ₂ NH ₄ - Aliphatic Acid			Liquid Ag Plant Leaf Cleaner	98.8%
Octylphenoxyethoxyethanol CA#9002-93-1			nonionic surfactant organic	1.2%

Section III — Physical/Chemical Characteristics

Boiling Point not established	Specific Gravity (H ₂ O = 1) 1.199
Vapor Pressure (mm Hg.) not established	Melting Point not established
Vapor Density (AIR = 1) not established	Evaporation Rate (Butyl Acetate = 1) not established
Solubility in Water freely soluble	
Appearance and Odor	

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures not applicable (aqueous solution)			
Unusual Fire and Explosion Hazards N/A			

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid not applicable
	Stable	XX	

Incompatibility (Materials to Avoid)

usual incompatibilities with organic acids

Hazardous Decomposition or Byproducts

not established

Hazardous
Polymerization

May Occur

Conditions to Avoid

Will Not Occur

X

not applicable

Section VI — Health Hazard Data

Route(s) of Entry:

Inhalation?

Skin?

Ingestion?

Health Hazards (Acute and Chronic)

no TLV established (threshold limit value)

Carcinogenicity:

NTP?

IARC Monographs?

OSHA Regulated?

Signs and Symptoms of Exposure

over exposure may be mild skin and eye irritant

Medical Conditions

Generally Aggravated by Exposure

Emergency and First Aid Procedures

flush skin contact with water and flush eye contact immediately

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

no attempt at recovery is made

Waste Disposal Method

flush with water to drain. Dispose in conformance with pertinent federal, state, or local regulations.

Precautions to Be Taken in Handling and Storing

corrosion resistant containers should be used. Avoid contact with reactive metals (iron, zinc, aluminum).

Other Precautions

none

Section VIII — Control Measures

Respiratory Protection (Specify Type)

none

Ventilation

Local Exhaust

Special

none

none

Mechanical (General)

Other

none

none

Protective Gloves

Standard Work Gloves

Eye Protection

Safety Glasses

Other Protective Clothing or Equipment

none

Work/Hygienic Practices

Wash hand, arms, and face after use.