

MATERIAL SAFETY DATA SHEET

MONTEREY NATURE'S OWN SPRAY HELPER Page 1 of 4

Issue Date: 10/99

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

MONTEREY NATURE'S OWN SPRAY HELPER

CA Reg. No. 54705-50002-AA

Common Name: Spreader/sticker surfactant (Adjuvant).

Chemical Description: Liquid mixture of nonionic surfactant/ vegetable oil.

TSCA/CAS No.: This product is a mixture – there is no specific CAS No.

Manufactured For

Lawn & Garden Products, Inc.

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 435-2163

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
POE (9) Nonylphenols	26027-38-3, 9016-45-9	16.0	N.A.*	N.P.*
Isopropyl alcohol	67-63-0	3.0	400 ppm (PEL)	N.P.

* N.A. - Not Available.

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Thick amber liquid with vegetable-like odor. Avoid contact with strong acids or oxidizing agents, or materials reactive with hydroxyl compounds. Burning may result in formation of carbon oxides. D.O.T. flammable liquid.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 1 ENVIRONMENT: 1
(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

Eyes: Flush immediately with water for at least 15 minutes. Do not rub eyes. Get immediate medical attention.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.

Ingestion: If conscious and alert, administer water or milk for dilution. If vomiting occurs spontaneously, keep victim's head below his hips to prevent inhalation of vomitus into lungs. Contact physician or Poison Control Center immediately.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	85°F.
Test Method:	ASTM-D93
LEL Flammable Limits:	Not pertinent.
UEL Flammable Limits:	Not pertinent.
Autoignition Temperature:	Not pertinent.
Flammability Classification:	Flammable.
Known Hazardous Products of Combustion:	None.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Water, foam, CO ₂ , dry chemical.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation:	Not necessary.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Keep away from strong acids and/or oxidizing agents. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious gloves and clothes.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Thick amber liquid.
Odor:	Vegetable oil-like.
pH:	7.0
Vapor Pressure:	0.70 (psi)
Vapor Density (Air = 1):	< 1.0
Boiling Point:	78.9°C (174°F)
Freezing Point:	Not available.
Water Solubility:	Emulsifiable.
Density:	7.84 lbs./gal.
Evaporation Rate:	Not available.
Viscosity:	Not available.
% Volatile:	None.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Avoid contact with strong acids, oxidizing agents or materials reactive with hydroxyl compounds.
Incompatibility:	Not available.
Hazardous Decomposition Products:	Burning may result in formation of carbon oxides.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Mild irritant. May cause redness and/or burning.
Skin:	Mild irritant, especially from prolonged exposure. Causes redness, drying and cracking.
Ingestion:	LD ₅₀ (Rat) > 5000 mg/kg.
Inhalation:	None expected but aerosol mist may cause mild irritation of nasal mucous membranes.

Subchronic Effects: None known.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T. Proper Shipping Description:

12/1 Pts.; 4/1 Gal.-

Flammable Liquid, N.O.S. (Isopropanol), 3, UN 1993, PG III, Ltd. Qty. (No Hazard Labels/Placards Required) ERG #128.

Other Shipping Information:

Adhesives, Adjuvants, Spreaders or Stickers, Liquid.
NMFC Item 4612, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65 (CA): None.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.