



Safety Data Sheet

Report Date 02-Nov-16

Page 1 of 4

1. Identification

Product Name : PREMIUM MSO - METHYLATED SPRAY OIL
Synonyms : None
Product Use : Modified Vegetable Oil Concentrate
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Direct eye contact with liquid may cause irritation.
Acute Toxicity Oral : LD50 >4,000 mg/kg (rat)
Acute Toxicity Dermal : LD50 >2,000 mg/kg (rabbit)

Hazard Categories : Oral/Inhalation Toxicity-5/5; Eye/Skin Irritation-2B/2

Hazard Statement : May be harmful if swallowed
Causes eye irritation
Causes skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Modified vegetable (seed) oil and alkyl phenol ethoxylate (CAS No. 127087-87-0).	Proprietary	100.00

4. First Aid Measures

Eye : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move to fresh air if irritation develops. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a doctor or poison control center for further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically.

5. Fire Fighting Measures



Safety Data Sheet

Report Date 02-Nov-16

Page 2 of 4

- Extinguishing Media** : Use alcohol foam, dry chemical, carbon dioxide or water spray extinguishing agents.
- Specific Hazards Arising from the Chemical** : None currently known.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Water spray may be ineffective.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, apron and footwear. Use NIOSH-approved air-purifying respirator suitable for oils if spray is present.
- Emergency Procedures** : Do not contaminate water supplies, streams, ponds, lakes or drains with spilled product. Spills may be reportable to the National Response Center under the Clean Water Act/Oil Pollution Prevention Act.
- Methods and Materials for Containment and Cleanup** : Dike and absorb spilled product with an absorbent such as clay or sand. Collect spilled material and place in suitable containers for proper disposal. Flush spill area with water, absorb and place in same containers with collected product.

7. Handling and Storage

- Precautions for Safe Handling** : Keep product locked up and out of reach of children. Keep container tightly closed. This product may freeze at temperatures less than 50 Degrees F. Do not allow water to be introduced into the contents of the container. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment washwaters or spray waste.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established
- Appropriate Engineering Controls** : Mechanical exhaust system recommended.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, apron and footwear. Use NIOSH-approved air-purifying respirator suitable for oils if spray is present.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear yellow liquid with mild odor.
- Flash Point, °F** : >201 Degrees F.
- Boiling Point, °F** : >200 Degrees F.
- Melting Point(Freezing point), °C** : <35 Degrees F.
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Dispersible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 0.888-0.908
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : Non-aqueous
- Flammable Limits (approximate volume % in air)** : Not determined



Safety Data Sheet

Report Date 02-Nov-16

Page 3 of 4

Auto-ignition Temperature : Not determined
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition : May produce oxides of carbon and oxides of nitrogen under fire conditions.
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid strong oxidizing agents such as hydrogen peroxide, bromine and chromic acid.
Incompatible Materials : Strong oxidizing agents, such as hydrogen peroxide, bromine and chromic acid.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >4,000 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbit). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 data available. May be harmful if inhaled.
Likely Routes of Exposure : Skin and eyes.
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Causes eye irritation.
Skin Sensitization : No information found
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : Do not contaminate water supplies, lakes, streams, ponds or drains with this product.

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT, IATA or IMDG.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : No information found



Safety Data Sheet

Report Date **02-Nov-16**

Page 4 of 4

Freight Classification : Adhesives, Adjuvants, Spreaders or Stickers, N.O.I. (NMFC Item 42652, Class 60)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 1 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 02-November-2016