



Safety Data Sheet

Report Date 09-Apr-15

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1. Identification

Product Name : VEGETABLE OIL CONCENTRATE
Synonyms : None
Product Use : Vegetable Oil Surfactant
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 : Irritating to skin
Eye Irritation : Irritating to eyes
Acute Toxicity Oral : LD50 3,310 mg/kg (rat)
Acute Toxicity Dermal : LD50 >2,000 mg/kg (rabbit)

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

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Vegetable Oil	68956-68-3	85.00
Alkylphenol ethoxylate	127087-87-0	14.48
Constituents ineffective as spray adjuvant	Proprietary	0.52

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 person to fresh air. 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.



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5. Fire Fighting Measures

- Extinguishing Media** : Use dry chemical, carbon dioxide or alcohol foam extinguishing agents.
- Specific Hazards Arising from the Chemical** : Water or foam extinguishing agents may cause frothing.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool. Water spray may be ineffective in fighting fire.

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. Eyewash should be available in work area.
- 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** : Do not contaminate water, food or feed by storage or disposal. Keep container tightly closed. Do not allow water to be introduced into container. Wash thoroughly after handling and before eating, drinking, chewing gum or using tobacco products.
- Conditions for Safe Storage** : Keep product locked up and out of reach of children. 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. Eyewash should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear red liquid with vegetable odor.
- Flash Point, °F** : 250 Degrees F.
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : <32 Degrees F.
- Vapor Pressure, mm Hg @ 20 °C** : Not applicable (oil)
- Vapor Density** : >1 (air = 1)
- Solubility in Water** : Dispersible
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 0.915-0.930
- Evaporation Rate(Butyl Acetate = 1)** : No data available



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Octanol/Water Partition Coefficient : No information found
pH : Non-aqueous
Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : 850 Degrees F.
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : May produce oxides of carbon under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid contact with strong oxidizers.
Incompatible Materials : Avoid contact with strong oxidizers.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 3,310 mg/kg (rat)
Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbit)
Acute Toxicity Inhalation LC50 : No data available. In high concentrations, vapors may be irritating to the respiratory system.
Likely Routes of Exposure : Skin and eyes.
Skin Irritation : Irritating to the skin.
Eye Irritation : Irritating to the eyes.
Skin Sensitization : Not listed as a sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No additional adverse health effects noted.
Other Hazards : CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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



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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
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 : 09-April-2015