



Safety Data Sheet

Report Date 27-Sep-15

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1. Identification

Product Name : OPTIMA
Synonyms : None
Product Use : Adjuvant
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 : Danger
Skin Irritation : Score 1.5, slightly irritation to the exposed skin.
Eye Irritation : Severely irritating. Direct contact with product may cause severe eye irritation and irreversible eye damage.
Acute Toxicity Oral : LD50 1,550 mg/kg (rat)
Acute Toxicity Dermal : LD50 5,150 mg/kg (rat)

Hazard Categories : Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-1/3

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

3. Composition / Information on Ingredients

| Component | CAS Number | Weight % |
|--|--------------|----------|
| Polyethoxylated alkyl amines (C8-C18), alkyl polyoxyethylene glycols, and organic acids. | Proprietary | 90.00 |
| Constituents ineffective as adjuvants | Nonhazardous | 10.00 |

4. First Aid Measures

Eye : Hold eyes 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 further 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 mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Have 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.



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

5. Fire Fighting Measures

Extinguishing Media : Use alcohol foam, dry chemical and carbon dioxide.
Specific Hazards Arising from the Chemical : None currently known.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions : Keep unprotected and unnecessary personnel out of spill area.
Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator for organic vapors if needed. Eyewash and emergency shower should be available in work area.
Emergency Procedures : Dike spill area to prevent spreading to soil or waterways, sewers or drains.
Methods and Materials for Containment and Cleanup : Cover spill with an inert absorbent, such as clay, sand or sawdust. Collect and place in suitable containers for proper disposal. Flush spill area with water, then absorb with inert material, collect and place in same containers with other material.

7. Handling and Storage

Precautions for Safe Handling : Keep out of reach of children. Keep container tightly closed. Do not contaminate water, food or feed by storage, handling or disposal. Do not allow water to be introduced into the contents of this container.
Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents.

8. Exposure Controls / Personal Protection

TLV/PEL : No information found
Appropriate Engineering Controls : Local exhaust is sufficient.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved air-purifying respirator for organic vapors if needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Slightly hazy amber liquid; low odor.
Flash Point, °F : >200 Degrees F.
Boiling Point, °F : >200 Degrees F.
Melting Point(Freezing point), °C : Not determined
Vapor Pressure, mm Hg @ 20 °C : Not determined
Vapor Density : Not determined
Solubility in Water : Soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.103 to 1.123
Evaporation Rate(Butyl Acetate = 1) : Not determined



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Octanol/Water Partition Coefficient : No information found
pH : <3.5 (1%)
Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not determined
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 : None currently known
Incompatible Materials : None currently known

11. Toxicological Information

Acute Toxicity (Oral LD50) : 1,550 mg/kg (rat). Harmful if swallowed.
Acute Toxicity (Dermal LD50) : 5,150 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 established - no fatalities in test subjects. May be harmful if inhaled.
Likely Routes of Exposure : Eyes, skin, ingestion, inhalation.
Skin Irritation : Slightly irritating to the exposed skin - score 1.5. Causes mild skin irritation.
Eye Irritation : Severely irritating; direct contact with product may cause severe eye irritation and irreversible eye damage. Causes serious eye damage.
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 : No information found

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.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None



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Environmental Hazards : No information found
Transport in Bulk : None
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: 2 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 : 27-September-2015