



Safety Data Sheet

Report Date 13-May-15

Page 1 of 4

1. Identification

Product Name : ZANDAR
Synonyms : None
Product Use : Penetrant-Acidifier-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 : Danger
Skin Irritation : Causes severe skin burns and eye damage.
Eye Irritation : Causes serious eye damage.
Acute Toxicity Oral : LD50 (rat) > 5,000 mg/kg. May be harmful if swallowed.
Acute Toxicity Dermal : LD50 (rabbit) > 5,000 mg/kg. May be harmful in contact with skin.

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

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye damage
Causes severe skin burns and eye damage
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Phosphatidycholine, methylacetic acid, polyoxyethylene ether.	None found	80.00
Inert ingredients, ineffective as adjuvants.	Proprietary	20.00

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. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures



Safety Data Sheet

Report Date 13-May-15

Page 2 of 4

- Extinguishing Media** : Use water, dry chemical or carbon dioxide (CO₂) extinguishing agents.
Specific Hazards Arising from the Chemical : None currently known.
Special Fire Fight Proc : Wear a positive pressure self-contained breathing apparatus and proper protective gear. Minimize runoff.

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. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
Emergency Procedures : Contain spilled product to prevent contamination of waterways, drains or sewers.
Methods and Materials for Containment and Cleanup : Absorb spilled liquid with inert absorbent. Pick up absorbent materials and place in a container for proper disposal in accordance with applicable regulations.

7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
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** : No TLV or PEL available for mixture.
Appropriate Engineering Controls : General ventilation recommended. Use mechanical ventilation if handled indoors.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Dark brown liquid with vinegar-like odor.
Flash Point, °F : >200 Degrees F. (TCC)
Boiling Point, °F : >212 Degrees F.
Melting Point(Freezing point), °C : Not specified
Vapor Pressure, mm Hg @ 20 °C : Not applicable
Vapor Density : Not applicable
Solubility in Water : Dispersible emulsification
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.006-1.026
Evaporation Rate(Butyl Acetate = 1) : Not specified
Octanol/Water Partition Coefficient : No information found
pH : 3.0 to 4.0 (0.25%)
Flammable Limits (approximate volume % in air) : Not determined



Safety Data Sheet

Report Date 13-May-15

Page 3 of 4

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

10. Stability and Reactivity

Reactivity : Not reactive
Chemical Stability : Stable
Hazardous Decomposition : None currently known.
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid highly alkaline conditions.
Incompatible Materials : Avoid contact with strong oxidizers and strong alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,000 mg/kg (rabbit). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 available. Vapors are irritating to eyes, nose, throat. May be harmful if inhaled.
Likely Routes of Exposure : Skin, eyes
Skin Irritation : Causes severe skin burns and eye damage.
Eye Irritation : 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 D.O.T.
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 **13-May-15**

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: 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 : 13-May-2015