

Report Date 17-Sep-19

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1. Identification

Product Name : ZANDAR Synonyms : None

Product Use: Penetrant-Acidifier-Surfactant **Manufacturer/Supplier**: Helena Agri-Enterprises, LLC

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.

Acute Toxicity Dermal : LD50 (rabbit) > 5,000 mg/kg.

Hazard Categories: Eye Irritation-1; Skin Irritation-1A

Hazard Statement: Causes severe skin burns and eye damage

3. Composition / Information on Ingredients

ComponentCAS NumberWeight %Phosphatidylcholine, methylacetic acid,
and alkyl polyoxyethylene ether.
Inert ingredients, ineffective as
adjuvants.Proprietary80.0

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.

Attention and Special Treatment

Indication of Immediate Medical : In the event of an adverse response, treatment should be directed toward

control of the symptoms.

5. Fire Fighting Measures

Extinguishing Media: Use water, dry chemical or carbon dioxide (CO2) extinguishing agents.

Specific Hazards Arising from the : None currently known.

Chemical

Needed



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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 : Absorb spilled liquid with inert absorbent. Pick up absorbent materials and place

Containment and Cleanup 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: Yellow to brown liquid; vinegar-like odor.

Flash Point, °F : >200 Degrees F. (TCC)

Boiling Point, °F : >212 Degrees F.

Melting Point(Freezing point), °C : 35 Degrees F.

Vapor Pressure, mm Hg @ 20 $^{\rm o}{\rm C}~$: Not available

Vapor Density : Not available

Solubility in Water : Emulsifies in water

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 0.99-1.03

Evaporation Rate(Butyl Acetate = : Not available

1)

Octanol/Water Partition : No information found

Coefficient

pH : 3.0 to 4.0 (0.25%)

Flammable Limits (approximate : Not determined

volume % in air)

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



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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, extreme temperatures and open flames.

Incompatible Materials: Avoid contact with strong oxidizers and strong alkaline materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200

(2012).

Acute Toxicity (Dermal LD50) : >5,000 mg/kg (rabbit). Not classified as hazardous under 29 CFR 1910.1200

(2012).

Acute Toxicity Inhalation LC50 : No LC50 available. Vapors are irritating to eyes, nose, throat. Not classified as

hazardous.

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 LC50 data available (algae). EC50 (daphnia) = 190 mg/L. LC50 (fish) = 130

mg/L.

Persistence and Degradability : Not established Bioaccumulative Potential : Not established Mobility in Soil : Not available

Other Adverse Effects: Avoid release to open bodies of water.

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 : No information found

Transportation

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

60)



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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 N

Pressure: Fire: N Reactive: N

16. Other Information

Data of Preparation/Revision: 17-September-2019