



Safety Data Sheet

Report Date 12-Apr-15

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1. Identification

Product Name : DLZ
Synonyms : Droplet Landing Zone
Product Use : Premium Buffered MSO 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 : Moderate irritant
Eye Irritation : Eye irritation III
Acute Toxicity Oral : LD50 >5,050 mg/kg (rat)
Acute Toxicity Dermal : LD50 >2,020 mg/kg (rabbit)

Hazard Categories : Eye irritation - 2A; Skin irritation - 2; Oral/Dermal/Inhalation Toxicity - 5/5/5

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Methylated seed oil, paraffinic oil and nonionic surfactants.	Proprietary	92.00
Components ineffective as adjuvant	Proprietary	8.00

4. First Aid Measures

Eye : Flush eyes with clean water for at least 15 minutes. See a physician if irritation persists.

Skin : Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation develops, consult a physician.

Inhalation : Move to fresh air. If breathing becomes difficult, obtain medical attention immediately.

Ingestion : Do not induce vomiting. Immediately drink a large quantity of milk or water and call a physician. Never give anything by mouth to an unconscious person.

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

5. Fire Fighting Measures

Extinguishing Media : Use water, alcohol foam, dry chemical or carbon dioxide extinguishing agents.



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Specific Hazards Arising from the Chemical : May produce hazardous fumes or decomposition products under fire conditions.
Special Fire Fight Proc : Wear a 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 : Impervious gloves, splashproof goggles or face shield, impervious apron and footwear. Use NIOSH-approved air-purifying respirator with organic vapor cartridge.
Emergency Procedures : Rope off contaminated area.
Methods and Materials for Containment and Cleanup : Cover spilled material with an absorbent, such as clay, sand or sawdust. Collect and place in recovery drum for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Keep container tightly closed. Do not contaminate water sources by cleaning of equipment or disposal or rinse water.
Conditions for Safe Storage : May be stored in unheated area, but keep from freezing.

8. Exposure Controls / Personal Protection

TLV/PEL : No information found
Appropriate Engineering Controls : Local exhaust should be sufficient.
Personal Protective Equipment : Impervious gloves, splashproof goggles or face shield, impervious apron and footwear. Use NIOSH-approved air-purifying respirator with organic vapor cartridge.

9. Physical and Chemical Properties

Odor/Appearance : Clear amber liquid with surfactant odor.
Flash Point, °F : >200 Degrees F.
Boiling Point, °F : >200 Degrees F.
Melting Point(Freezing point), °C : Not established
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 : 0.874-0.894
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : No information found
pH : Not applicable
Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not determined
Decomposition temperature : No information found

10. Stability and Reactivity



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Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : When heated to decomposition, product will emit toxic fumes and vapors.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid mixing with alkali, cyanides, sulfides, aluminum, magnesium, zinc and chlorine releasers.
Incompatible Materials : Alkali, cyanides, sulfides, aluminum, magnesium, zinc and chlorine releasers.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,050 mg/kg
Acute Toxicity (Dermal LD50) : >2,020 mg/kg
Acute Toxicity Inhalation LC50 : >1.38 mg/L (vapor limit)
Likely Routes of Exposure : Skin, eyes, inhalation
Skin Irritation : Moderate irritant
Eye Irritation : Eye irritation (III)
Skin Sensitization : Not a sensitizer
Carcinogenic : None currently known.
Chronic Effects : No information found
Other Hazards : CA Prop 65: This product contains <1 ppm ethylene oxide, a chemical known to the state of CA to cause cancer or 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 : 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, 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
Freight Classification : Adhesives, Adjuvants, Spreaders or Stickers, N.O.I. (NMFC Item 42652, Class 60)

15. Regulatory Information



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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 : 12-April-2015