



Safety Data Sheet

Report Date 21-Nov-17

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1. Identification

Product Name : Fire-Zone
Synonyms : None
Product Use : Modified Methylated Seed Oil Spray 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 : Warning (no symbols required on label per UN Manual, Chapter 3.6.2 and Chapter 3.8.2)
Skin Irritation : Slightly irritating but no effect after Day 10; PII=1.1
Eye Irritation : Mildly irritating and no effect after 4 days.
Acute Toxicity Oral : LD50 (rat) >5,000 mg/kg
Acute Toxicity Dermal : LD50 (rat) >5,050 mg/kg

Hazard Categories : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2B/3; STOT-Single-3/3; Carcinogenicity-2

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
May be harmful if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness
Suspected of causing cancer

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Methylated Seed Oil (MSO), Polyethoxylated aliphatics, and phosphorated polyethoxylated alkanooates.	Proprietary	100



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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 the eyes. Call a poison control center or doctor for treatment advice.
- Skin** : Remove contaminated clothing. Rinse skin immediately with plenty of water, continuing for 15 to 20 minutes. Call a poison control center or physician for treatment advice.
- Inhalation** : Move 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** : Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically. Presents an aspiration hazard.

5. Fire Fighting Measures

- Extinguishing Media** : Use water fog, foam, dry chemical or carbon dioxide extinguishing agents.
- Specific Hazards Arising from the Chemical** : Emits oxides of carbon, smoke and fumes under fire conditions.
- Special Fire Fight Proc** : Do not use straight streams of water to fight fire involving this product. Wear self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers and surfaces.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles, chemical-resistant gloves, oil-resistant footwear. Eyewash and safety shower should be available in work area. Use NIOSH-approved air-purifying respirator when exposed to excessive vapors or spray mist.
- Emergency Procedures** : Spills may be subject to oil spill reporting requirements - consult local regulations.
- Methods and Materials for Containment and Cleanup** : Absorb small spills with earth, sand or non-combustible material. Collect and transfer to suitable containers for proper disposal. Recover standing liquid by pumping and reuse as intended.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Do not contaminate food or feed by storage, handling or disposal. Do not allow water to be introduced into the contents of the container. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment wash waters or spray waste.



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Conditions for Safe Storage : Store in original container only. Keep container tightly closed. May freeze at temperatures below 50 Degrees F. 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 established.

Appropriate Engineering Controls : General and/or local exhaust should be sufficient.

Personal Protective Equipment : Splashproof goggles, chemical-resistant gloves, oil-resistant footwear. Eyewash and safety shower should be available in work area. Use NIOSH-approved air-purifying respirator when exposed to excessive vapors or spray mist.

9. Physical and Chemical Properties

Odor/Appearance : Clear yellow to golden liquid; aromatic odor.

Flash Point, °F : >203 Degrees F.

Boiling Point, °F : >400 Degrees F.

Melting Point(Freezing point), °C : No information found

Vapor Pressure, mm Hg @ 20 °C : No information found

Vapor Density : No information found

Solubility in Water : Emulsifies

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 0.951-0.971

Evaporation Rate(Butyl Acetate = 1) : No information found

Octanol/Water Partition Coefficient : No information found

pH : 3.2 to 6.5 (1%)

Flammable Limits (approximate volume % in air) : No information found

Auto-ignition Temperature : >800 Degrees F.

Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found

Chemical Stability : Stable

Hazardous Decomposition Products : May emit oxides of carbon and incomplete combustion products under fire conditions.

Hazardous Polymerization : Will not occur

Conditions to Avoid : Avoid open flames and high energy ignition sources.

Incompatible Materials : Avoid contact with nitric acid, sulfuric acid and strong oxidizers.



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11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >5,000 mg/Kg (rat). May be harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >5,050 mg/Kg (rat). May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : >2.17 mg/L (vapor limit). May be harmful if inhaled.
- Likely Routes of Exposure** : Skin and eye contact, inhalation
- Skin Irritation** : Causes mild skin irritation. Slightly irritating but no effect after day 10; PII=1.1.
- Eye Irritation** : Causes eye irritation. Mildly irritating and no effect after 4 days.
- Skin Sensitization** : Not a skin sensitizer.
- Carcinogenic** : Petroleum distillates consist of solvent naphtha. Naphthalene is suspected human carcinogen.
- Chronic Effects** : CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (Naphthalene, CAS No. 91-20-3)
- Other Hazards** : Specific Target Organ Toxicity (STOT)-Single Exposure: May cause respiratory irritation. May cause drowsiness or dizziness.

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 in non-bulk packages. Regulated in bulk or if shipped by IATA (air) or IMDG (vessel) in any size package as Environmentally Hazardous Substance, Liquid, n.o.s. (methyl-naphthalenes).
- Transport Hazard Class** : Class 9 (bulk/IATA/IMDG)
- UN Identification Number** : 3082(bulk/IATA/IMDG)
- Packaging Group** : PG III (bulk/IATA/IMDG)
- Environmental Hazards** : Marine Pollutant - methyl-naphthalenes
- Transport in Bulk** : Marine Pollutant - methyl-naphthalenes



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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: Y
Sudden Release of N
Pressure:
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 21-November-2017