



Safety Data Sheet

Report Date 22-May-15

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1. Identification

Product Name : JOINT VENTURE
Synonyms : None
Product Use : Spray Adjuvant - Biological/Biorational Pesticides
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 symbol)
Skin Irritation : Draize Test Score: 1.1 (slightly irritating)
Eye Irritation : Zero impact in testing
Acute Toxicity Oral : LD50 >5,050 mg/kg (rat)
Acute Toxicity Dermal : LD50 >2,020 mg/kg (rat)

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

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of polyalkyleneoxide modified organosilicones, aryl polyoxyalkane ether, and aliphatic ester of C9-C12 fatty acids	Proprietary	99.0
Ingredients ineffective as spray adjuvant	Proprietary	1.0

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.

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

Extinguishing Media : Use alcohol-type or universal type foam for large fires. Use carbon dioxide or dry chemical for small fires.



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Specific Hazards Arising from the Chemical : None currently known.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing. Avoid spraying a solid stream of water or foam directly into a pool of hot, burning liquid. This may cause frothing.

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 : Isolate spill area.

Methods and Materials for Containment and Cleanup : Cover spilled product with inert absorbent, such as clay, sand or sawdust. Scoop or sweep up absorbent and place in suitable containers for proper disposal.

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 established.

Appropriate Engineering Controls : General (mechanical) room ventilation is expected to be satisfactory.

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 : Clear, viscous green liquid; surfactant odor.

Flash Point, °F : >240 Degrees F.

Boiling Point, °F : >300 Degrees F.

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

Vapor Pressure, mm Hg @ 20 °C : >1

Vapor Density : <1 mmHg

Solubility in Water : Dispersible

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 0.900-0.930

Evaporation Rate(Butyl Acetate = 1) : <1

Octanol/Water Partition Coefficient : No information found

pH : Not applicable, non-aqueous

Flammable Limits (approximate volume % in air) : Not determined

Auto-ignition Temperature : No information found

Decomposition temperature : No information found



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10. Stability and Reactivity

- Reactivity** : No information found
Chemical Stability : Stable
Hazardous Decomposition : Burning can produce carbon dioxide, carbon monoxide and oxides of silicon.
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known
Incompatible Materials : None currently known

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >5,050 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,020 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : >5.07 mg/L (vapor limit). May be harmful if inhaled.
Likely Routes of Exposure : Skin and eyes
Skin Irritation : Draize score: 1.1 (slightly irritating). Causes mild skin irritation.
Eye Irritation : Zero impact (non-irritating) in laboratory tests. Causes eye irritation.
Skin Sensitization : Not listed as a skin sensitizer.
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, 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)



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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 Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 22-May-2015