



Safety Data Sheet

Report Date 22-May-15

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1. Identification

Product Name : SMOKE
Synonyms : None
Product Use : Herbicide Activator and Water Conditioner
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 : Causes skin irritation
Eye Irritation : Causes eye irritation
Acute Toxicity Oral : May be harmful if swallowed
Acute Toxicity Dermal : No classification for dermal toxicity

Hazard Categories : Oral Toxicity - 5; Eye Irritation - 2B; Skin Irritation - 2

Hazard Statement : May be harmful if swallowed
Causes eye irritation
Causes skin irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Trihydroxy carboxylic acid, alkyl amine alkoxyate, alkyl alkoxyated phosphate amine, urea sulfuric acid complex. Constituents ineffective as spray adjuvant	Proprietary	56.4
	Proprietary	43.6

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



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- Extinguishing Media** : Use dry chemical, foam, water spray, water fog or carbon dioxide to extinguish fire. Use water fog, alcohol-type or all-purpose-type foam water spray to cool fire-exposed containers.
- Specific Hazards Arising from the Chemical** : Can be dangerous when exposed to extreme heat and flame. Can vigorously decompose to release carbon dioxide gas.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Evacuate area. Prevent contamination from run off to adjacent areas.

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 spills immediately to prevent spreading. Will corrode susceptible metals. Recommended storage containers constructed of polypropylene, polyethylene or 316L stainless steel.
- Methods and Materials for Containment and Cleanup** : Cover spill with inert materials such as clay, sand or vermiculite. Transfer liquids and solids to suitable containers for 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 for mixture.
- Appropriate Engineering Controls** : General and/or local exhaust should be sufficient.
- 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, pale yellow liquid with fatty odor.
- Flash Point, °F** : >200 Degrees F.
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : Not determined
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Not measured
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.16-1.17
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : 2.5 to 3.5
- Flammable Limits (approximate volume % in air)** : Not determined



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

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition : Oxides of carbon, nitrogen and sulfur.
Products
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid oxidizing agents, strong acids, strong bases. Avoid extreme heat, open flame, sparks and other sources of ignition.
Incompatible Materials : Alkalis and susceptible metals (aluminum, tin, lead and zinc). Flammable hydrogen may be produced on prolonged contact with susceptible metals.

11. Toxicological Information

Acute Toxicity (Oral LD50) : 2,500 mg/kg (proprietary blend). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,000 mg/kg (proprietary blend). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 available. May be harmful if inhaled.
Likely Routes of Exposure : Skin and eyes
Skin Irritation : Causes skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not a skin sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : Skin contact may aggravate existing skin disease.

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



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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: 0 Reactivity: 2
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: Y

16. Other Information

Data of Preparation/Revision : 22-May-2015