



Safety Data Sheet

Report Date 21-Apr-15

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1. Identification

Product Name : DYNE-A-PAK
Synonyms : None
Product Use : Spray adjuvant and deposition aid
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 : LD50 >5,000 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity Dermal : >5,000 mg/kg (rat). May be harmful in contact with skin.

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

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of Ammonium nitrate, Urea, Alkoxylated Triglyceride, Methyl Soyate, Amine salt of alkyl ethoxylate phosphate and Trisiloxane	Proprietary	84.3
Constituents ineffective as spray adjuvant	Nonhazardous	15.7

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. Have person sip a glass of water if able to swallow. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically.



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5. Fire Fighting Measures

- Extinguishing Media** : Use dry chemical, water spray, water fog, carbon dioxide, foam or sand/earth.
Specific Hazards Arising from the Chemical : Under fire conditions, this product may behave as an oxidizer. In contact with oxidizable substances, ignition, violent combustion or explosion could occur.
Special Fire Fight Proc : Wear 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 : 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 spreading into soil or waterways, streams, ponds or drains.
Methods and Materials for Containment and Cleanup : Contain product and reuse if uncontaminated. If contaminated, cover spill with absorbent, such as clay or sand, then collect and place in suitable plastic container for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Keep packages tightly closed and do not allow water to be introduced into container contents.
Conditions for Safe Storage : Store in original container only. Do not store this product near heat or open flame. Do not store or ship this product with oxidizing agents.

8. Exposure Controls / Personal Protection

- TLV/PEL** : No information found
Appropriate Engineering Controls : Local exhaust normally 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 amber liquid, ammonia odor.
Flash Point, °F : >200 Degrees F.
Boiling Point, °F : 225 Degrees F.
Melting Point(Freezing point), °C : Not applicable
Vapor Pressure, mm Hg @ 20 °C : No data available
Vapor Density : Not determined
Solubility in Water : Soluble
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.18
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : No information found
pH : 5 to 8
Flammable Limits (approximate volume % in air) : Not applicable



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

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : Carbon monoxide and carbon dioxide from burning.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Do not mix with alkalines.
Incompatible Materials : Keep away from strong oxidizers such as hydrogen peroxide, bromine and chromic acid.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >5,000 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No data available. Mist may irritate the respiratory tract. May be harmful if inhaled.
Likely Routes of Exposure : Skin, eyes
Skin Irritation : Well-defined erythema and moderate to severe edema were evident at all 3 dose sites. By day 7, all animals were free from erythema and edema.
Eye Irritation : Severity of irritation - 1 hour=13.7; 4 days=0.0 (rabbit)
Skin Sensitization : Not a sensitizer
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : No data available
Other Hazards : No information found

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 : None



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Special Precautions for Transportation : None

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: 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 : 21-April-2015