



Safety Data Sheet

Report Date 18-Jul-15

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1. Identification

Product Name : AD-SPRAY 90 NIS
Synonyms : None
Product Use : Agricultural 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
Skin Irritation : Prolonged exposure may cause discomfort and local redness.
Eye Irritation : May cause irritation to the eyes, including redness, tearing, blurred vision and discomfort.
Acute Toxicity Oral : LD50 (rat) >2,000 mg/kg
Acute Toxicity Dermal : LD50 (rabbit) >2,000 mg/kg
Hazard Categories : Oral/Dermal/Inhalation Toxicity-4/4/4; Eye/Skin Irritation-2B/3
Hazard Statement : Harmful if swallowed
Harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
Harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of surfactants and formulation aids.	Proprietary	100.00

4. First Aid Measures

Eye : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or physician for treatment advice.
Skin : Remove contaminated clothing. Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or physician for treatment advice if irritation persists.
Inhalation : After vapor exposure, remove to fresh air. If symptoms persist, seek medical attention.
Ingestion : Call a poison control center or physician immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting. Do not 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 control of the symptoms and the clinical condition of the patient.

5. Fire Fighting Measures



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Extinguishing Media : Use water spray/fog for cooling containers and firefighters. Use water spray, foam, dry chemical or carbon dioxide extinguishing agents.

Specific Hazards Arising from the Chemical : Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury. Minimize runoff if possible. Notify proper authorities if liquid material enters the sewer or public waters.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and protected location. Fight fire upwind to avoid hazardous vapors and decomposing products.

6. Accidental Release Measures

Personal Precautions : Keep unprotected and unnecessary personnel out of spill area. Ventilate area before attempting cleanup.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not needed if engineering controls are adequate. If needed, use NIOSH-approved respiratory protection based on actual or potential airborne concentrations. Eyewash and emergency shower should be available in work area.

Emergency Procedures : Stop spill at its source. Construct temporary dikes of dirt, sand or appropriate readily available material to prevent spreading of material. Keep from entering storm sewers and ditches which lead to waterways.

Methods and Materials for Containment and Cleanup : Absorb spilled liquid with polypads or other absorbent materials. Clean up with non-combustible absorbent, such as sand or soil. Shovel up and place in suitable containers. Dispose of at an appropriate waste disposal facility according to applicable regulations.

7. Handling and Storage

Precautions for Safe Handling : Keep out of reach of children. Do not reuse the container.

Conditions for Safe Storage : Store in a cool, dry area.

8. Exposure Controls / Personal Protection

TLV/PEL : No TLV/PEL established.

Appropriate Engineering Controls : Mechanical ventilation

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Use NIOSH-approved respiratory protection, if needed, based on actual or potential airborne concentrations. Safety shower and eyewash should be available.

9. Physical and Chemical Properties

Odor/Appearance : Clear amber liquid with alcohol 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 : Soluble

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.02-1.04

Evaporation Rate(Butyl Acetate = 1) : Not determined

Octanol/Water Partition Coefficient : Not determined



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pH : 4 to 7 (2%)
Flammable Limits (approximate volume % in air) : Not determined
Auto-ignition Temperature : Not determined
Decomposition temperature : Not determined

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : Combustion may yield carbon oxides and other hazardous gases.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None known
Incompatible Materials : Avoid strong acids, bases and oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >2,000 mg/kg (rat). Harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbit). Harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 available. Harmful if inhaled.
Likely Routes of Exposure : Eyes, skin, ingestion, inhalation
Skin Irritation : Causes mild skin irritation.
Eye Irritation : Causes eye irritation.
Skin Sensitization : Not listed
Carcinogenic : No information found
Chronic Effects : No information found
Other Hazards : No information found

12. Ecological Information

Ecotoxicity : LC50 (72-hours), Algae > 1 mg/L; EC50 (48-hours), Daphnia magna > 1 mg/L; LC50 (96 hours), Fish > 1 mg/L.
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 for ground transportation in non-bulk packages.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found



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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: 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 N
Pressure:
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 18-July-2015