



MATERIAL SAFETY DATA SHEET

Universal Crop Protection Alliance, LLC
1300 Corporate Center Circle
Eagan, MN 55121

In Case of Emergency, Call:
24 Hour Emergency Number
CHEMTREC: 800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name: Spear II Product No.: RP0347
EPA Signal Word: Caution
EPA Reg. Number: NA
Active Ingredient (%): NA CAS No.: NA
Chemical Name: Penetrating & Buffering Agent
Chemical Class: Adjuvants

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
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This product contains no hazardous components as defined in OSHA 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not regulated material. Pale yellow liquid. Mild paraffinic/fatty odor. May produce severe eye irritation and skin irritation with prolonged exposure. Avoid breathing oil mist. Avoid ingesting the product.

Potential Health Effects: On rare occasions prolonged or repeated exposure to oil mists poses a risk of pulmonary disease such as chronic lung inflammation.

Eye: May cause severe eye irritation.

Skin: May cause severe skin irritation.

Ingestion: May cause throat irritation, is relatively non toxic unless aspiration occurs.

Inhalation: May cause respiratory discomfort.

Physical Properties:

Appearance: Pale yellow liquid

Odor: Mild paraffinic/fatty odor

4. FIRST AID MEASURES

- Ingestion: Do not induce vomiting due to aspiration hazard. If vomiting occurs lower head below knees to avoid aspiration. Get immediate medical attention.
- Eye Contact: Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. Seek medical attention if irritation persists.
- Skin Contact: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention.
- Inhalation: This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient temperatures.

Medical Condition Likely to be Aggravated by Exposure: None recognized.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): >200F (c.o.c.)

Flammable Limits (% in Air): No data

Autoignition Temperature: No data

Flammability: NA

Hazardous Combustion Products:

Carbon monoxide, carbon dioxide and other oxides.

Extinguishing Media:

Use dry chemical, foam or carbon dioxide.

Fire Fighting Instructions:

Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially when sprayed into containers of hot, burning liquid. Dense smoke may be generated while burning.

Protective Equipment for Fire Fighters:

Wear positive pressure self contained breathing apparatus and protective fire fighting clothing.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak: Notify appropriate authorities of spill. Contain spill immediately. Do not allow spill to enter sewer or water courses. Remove all sources of ignition. Absorb with appropriate inert material such as sand or clay. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: Good housekeeping and controlling of dusts are necessary for safe handling of product. No smoking, open flames or sources of ignition in handling and storage area. Wash thoroughly with soap and water after handling. Do not contaminate water, food or feed by storage or disposal. Store in original container. Do not store near heat or open flame.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

- Engineering Controls: Normal room ventilator should be satisfactory. Eyewash fountain and safety showers should be easily accessible.
- Eye Contact: Wear chemical safety goggles or safety glasses with side shields.
- Skin Contact: Wear rubber or plastic solvent resistant gloves, coveralls, apron, boots as necessary to avoid skin contact.
- Inhalation: If vapor or mist is generated when the material is handled, adequate ventilation must be provided.
- Ingestion: Avoid ingestion. Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking and smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Pale yellow liquid
- Odor: Mild paraffinic/fatty odor
- Specific Gravity/Density: 7.79 lbs./gal.
- pH: 3-4
- Solubility in H₂O₂: Emulsifiable

10. STABILITY AND REACTIVITY

Reactivity:

- Stability: Stable
- Hazardous Polymerization: Will not occur
- Conditions to Avoid: Keep away from strong oxidizers.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: Ingestion is relatively non toxic unless aspiration occurs. Aspiration may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate, and bluish discoloration of the skin. Coughing, choking and gagging are often noted at the time of aspiration. Gastrointestinal discomfort may develop followed by vomiting with a further risk of aspiration. This product has laxative properties and may result in abdominal cramps and diarrhea.

Dermal: This product may cause slight skin irritation upon direct contact. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping and reddening.

Inhalation: This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient temperatures.

Carcinogenic Potential: This product is not carcinogenic according to OSHA Hazard Communication Standard.

12. ECOLOGICAL INFORMATION

There is no information available for this product.

13. DISPOSAL CONSIDERATION

Disposal Method: Do not contaminate water, food or feed by storage or disposal. Dispose in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT Classification:
Not regulated

B/L Freight Classification:
Petroleum base oil

15. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the issue or revision date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another, it is users responsibility to ensure that its activities comply with federal, state and local laws and regulations.

SARA Title III Classification

Section 311/312: NA

Section 313 chemical(s):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>RQ</u>	<u>% In Product</u>
This product does not contain any chemical subject to the reporting requirements of this section.			

RCRA Classification: Not Regulated

TSCA Status: Not Regulated

OSHA Hazard Communications Standard: Not Applicable

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Issued Date: October 12, 1999
Supersedes: September 12, 1997

Reference MSDS: Adjuvants Unlimited, AU-160, MSDS dated 02/03/97
Pennzoil Products Company, Pennzspray 70, MSDS dated March 14, 1997

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Produced For: Red Panther Chemical Company, Clarksdale, Mississippi