

**MATERIAL SAFETY DATA SHEET**

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

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

Medical Emergency Contact:
1-800-228-5635 Ext. 138

1. CHEMICAL IDENTIFICATION

Product Name:	80-20 Surfactant	Product No.:	2030
EPA Signal Word:	N/A		
EPA Reg. Number:	N/A		
Active Ingredient (%):	N/A	CAS No.:	N/A
Chemical Name:	Nonionic Surfactant Blend		
Chemical Class:	Surfactant		

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. Clear light amber liquid. Mild odor. The material can cause moderate to severe irritation to the eyes and skin and has a relatively low toxicity. No fire or health hazard beyond that of ordinary combustible material.

Potential Health Effects: Harmful if absorbed through skin or swallowed. Causes eye and skin burns.

Eye: Moderate to severe irritation. Corneal injury may occur if not properly treated. There may be moderate conjunctivitis, seen as redness or swelling of the conjunctiva.

Skin: Prolonged contact may result in the absorption of potentially harmful amounts of material. May cause itching, redness, or swelling.

Ingestion: Moderately high toxicity. May cause gastrointestinal irritation, nausea, vomiting, diarrhea, and swelling or burning of the mouth, throat, esophagus, and stomach.

Inhalation: May cause irritation of the mucous membrane. Breathing mist may cause damage to the lungs.

Systemic (other Target Organs) Effects: May aggravate existing dermatitis. Because of its irritant and surfactant properties, breathing vapor or mist of this material may result in lung injury.

Physical Properties

Appearance:	Clear light amber liquid
Odor:	Mild odor

4. FIRST AID MEASURES

Ingestion: Give two glasses of water. Do not induce vomiting. Consult a physician immediately.

Eye Contact: Flush with water immediately and continuously for 15 minutes. Consult a physician.

Skin Contact: Immediately wash the skin with plenty of soap and water. Remove contaminated clothing and wash before reuse. If contact has been extensive or prolonged consult a physician.

Inhalation: Remove to fresh air. Consult a physician if irritation develops or breathing is difficult.

Notes to Physician:

No known antidote. Aspiration may occur during vomiting causing severe lung damage. Emesis should not be introduced by mechanical or pharmacological means. Use gastric lavage in the presence of endotracheal intubation to evacuate. Medical condition likely to be aggravated by exposure. Moderately high acute toxicity by swallowing and sustained skin contact.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method):	>200 F Pensky-Martens Closed Cup
Flammable Limits (% in Air):	N/D
Autoignition Temperature:	N/D
Flammability:	N/D

Hazardous Combustion Products: Carbon monoxide and dioxide.

Extinguishing Media: Water fog, foam, CO₂, and dry chemical. Do not allow water runoff to enter sewers or natural waterways.

Fire Fighting Instructions: Prevent human exposure to fire, fumes, smoke and products of combustion.

Protective Equipment for Fire Fighters: Emergency personnel should wear full face, self contained breathing apparatus and impervious protective clothing.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Contain spill. Absorb spill with sand, floor-clay or dirt. Shovel or sweep up. Prevent liquid from entering sewers, waterways, or low areas.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: See label. Keep out of reach of children. Do not get in the eyes, on skin, or on clothing. Avoid breathing mist or vapors. Good housekeeping is 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 above 40°F. 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: Use only with adequate ventilation.

Eye Contact: Use chemical goggles.

Skin Contact: Use protective clothing impervious to this material. Use of items such as gloves, boots, apron, or full-body suit will depend on the operation.

Inhalation: Use only a NIOSH/MESA approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear light amber liquid
Odor:	Mild odor.
Boiling Point:	> 212 F
Specific Gravity/Density:	1.05
pH:	N/A
Solubility in H ₂ O:	Complete
Vapor Pressure:	15.6
Vapor Density:	>1

10. STABILITY AND REACTIVITY

Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to Avoid: Open fire or flame

Incompatible Materials

Strong acids, bases, oxidizing agents, and material reactive to hydroxyl compounds.

Hazardous Decomposition Products

Carbon monoxide and asphyxiates.

11. TOXICOLOGICAL INFORMATION

Not Applicable

12. ECOLOGICAL INFORMATION

This product is expected to be toxic to fish at concentrations above 1 to 10 mg/l.

13. DISPOSAL CONSIDERATION

Disposal Method: Do not contaminate food, feed or water by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinseate is a violation of federal law. Use according to label instructions, otherwise contact your state or federal environmental control agency for disposal guidance.

14. TRANSPORT INFORMATION

DOT Classification: None as packaged

B/L Freight Classification: Adhesive, Adjuvant, Spreaders or Stickers

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: None

Section 313 chemical(s): None

16. OTHER INFORMATION

NFPA Hazard Ratings

Not Rated

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Issued Date: 7-29-99

Supersedes: 9-09-97

Reference MSDS:

Universal Cooperatives, Inc. 80/20 Surfactant, 9-9-97

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