

**MATERIAL SAFETY DATA SHEET**

Universal Cooperatives, Inc.
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: Guide-Line Product No.: 0909

EPA Signal Word: Warning

EPA Reg. Number: NA

Active Ingredient (%): NA CAS No.: NA

Chemical Name: Foam Marker Concentrate

Chemical Class: Surfactant Blend

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA TWA	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Ethylene Glycol Monobutyl Ether	120mg/cu m	120mg/cu m		No
Ethanol	1000 ppm	1880mg/cu m		No

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Severe eye irritant. Clear viscous liquid. Odorless. Harmful if inhaled, swallowed or absorbed through the skin. Skin and respiratory tract irritant. Product will burn under fire conditions.

Potential Health Effects:

Eye: Severe irritant. Can cause redness, irritation, tissue destruction

Skin: Harmful if absorbed through the skin. Irritant. Can cause redness, inflammation, irritation.

Ingestion: Harmful if ingested. Can cause nausea, diarrhea, abdominal cramps.

Inhalation: Harmful if inhaled. Can cause headache, dizziness, upper respiratory tract irritation.

Physical Properties

Appearance: Clear viscous liquid
Odor: Odorless

4. FIRST AID MEASURES

Ingestion:	If victim is conscious and alert, give 1-2 glasses of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention.
Eye Contact:	Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.
Skin Contact:	Immediately wash with plenty of soap and water for at least 5 minutes. Remove contaminated clothing and shoes, clean before reuse. Seek medical attention.
Inhalation:	Inhalation is not an expected route of exposure. If respiratory distress occurs, remove victim to fresh air.
Notes to Physician	All treatments should be based on observed signs and symptoms of distress in the patient. Treat symptomatically. No specific antidote available.

Medical Condition Likely to be Aggravated by Exposure: Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method):	93C (200F)
Flammable Limits (% in Air):	1.1% lower limit to 19% upper limit
Autoignition Temperature:	NA

Hazardous Combustion Products: Oxides of nitrogen, oxides of sulfur, oxides of carbon.

Extinguishing Media: Dry chemical or carbon dioxide for small fires
Foam or water spray for large fires. Avoid water jet (frothing possible)

Protective Equipment for Fire Fighters: : Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak: Absorb with inert absorbent. Sweep up and place in an appropriate closed container. Clean up residual material by washing area with water. Collect washings for disposal. Do not flush to drain.

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 tightly closed container above 39F. Do not store near heat or open flame. Avoid breathing vapors or mists. Avoid prolonged contact with skin and eyes.

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 sufficient. Eyewash station and safety showers should be easily accessible.
Eye Contact:	Wear chemical safety glasses with side shield or splash proof goggles.
Skin Contact:	Wear solvent resistant gloves, coveralls, aprons, boots as necessary to prevent skin contact.
Inhalation:	Wear NIOSH/MSHA approved respirator as necessary.
Ingestion:	Wash hands and face carefully before eating, drinking, smoking, applying cosmetics.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear viscous liquid
Odor:	Odorless
Boiling Point:	100C (212F)
Specific Gravity/Density:	1 to 1.04 g/ml @25C
pH:	7 to 8 @ 1%wt/wt%
Solubility in H ₂ O:	Soluble
Vapor Pressure:	<23.5 mm Hg @25C
Vapor Density:	NA
Viscosity:	50 cps @25C

10. STABILITY AND REACTIVITY

Reactivity

Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Heat, open flame, spark Strong oxidizing agents, strong reducing agents.

Hazardous Decomposition Products: Oxides of nitrogen, oxides of sulfur, oxides of carbon

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion:	LD50 for ethylene glycol monobutyl ether, 470 mg/kg, rat LD50 for surfactant blend, 6560 mg/kg rat
Dermal:	LD50 for ethylene glycol monobutyl ether, 220 mg/kg mouse
Inhalation:	LC50 for ethylene glycol monobutyl ether, 450 ppm/4 hr, rat
Eye:	Eye irritant, rabbit
Skin:	Moderately irritating, rabbit

Carcinogenic Potential: This product does not contain any substances that are considered to be 'probable' or 'suspected' human carcinogens.

12. ECOLOGICAL INFORMATION

Summary of Effects:

Ecotoxicology: No data found

Environmental Fate: No data found

13. DISPOSAL CONSIDERATION

Disposal Method: Do not contaminate food, feed or water by storage or disposal. Use according to label instructions, otherwise contact your local, state or federal environmental control agency for disposal guidance.

14. TRANSPORT INFORMATION

DOT Classification: Not regulated

B/L Freight Classification: Adjuvant spreader or sticker

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: Acute health hazard

Section 313 chemical(s):

Chemical Name

CAS Number

RQ

% In Product

RCRA Classification: Not regulated

TSCA Status: Ingredients listed on inventory

OSHA Hazard Communications Standard: 29 CFR 1910.1200

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 3
Flammability: 1
Reactivity: 0

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Issued Date: September 20, 1999

Supersedes: November 11, 1996

Reference MSDS: Rhodia, Ag-RHO FM-3896, MSDS dated 3/12/97

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