

#4 + maint.

MATERIAL SAFETY DATA SHEET

Universal Cooperatives

FS CROP OIL + SURFACTANT

FS Crop Oil + Surfactant  
MANUFACTURER: UNIVERSAL COOPERATIVES  
7801 METRO PKWY  
P.O. BOX 460  
MINNEAPOLIS, MN 55440-0460  
EMERGENCY PHONE NO: 800-228-5635 x138  
800-424-9300  
DATE OF MANUFACTURER'S MSDS: 11/3/93

HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	%
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CAS#:

This product contains no hazardous components as defined in OSHA 29 CFR 1910.1200.

LD50:

ORAL: NA  
DERMAL: NA

LD50 (185 lb. Man):

ORAL: NA  
DERMAL: NA

HEALTH HAZARD DATA

CARCINOGENICITY:

NTP: NA  
IARC MONOGRAPHS: NA  
OSHA REGULATED: NA

SIGNS AND SYMPTOMS OF EXPOSURE: If inhaled, may cause irritation of the mucous membranes. May be irritating to the skin. Causes moderate to severe irritation of the eyes. If ingested, may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NA

FIRST AID

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

SKIN: Immediately wash the skin with plenty of soap and water. Remove contaminated clothing and wash before reuse.

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

INGESTION: Do not induce vomiting. Consult physician immediately.

NOTE TO PHYSICIAN: NA

FIRE

FLASH POINT: >2000F

FLAMMABLE LIMITS:

LFL: NA  
UEL: NA

EXTINGUISHING AGENTS: Water fog, foam, CO2, and dry chemical.

FIRE FIGHTING PROCEDURES: Use positive pressure self-contained breathing apparatus.

SPECIAL HAZARDS: Material will not burn unless preheated.

NPPA RATINGS:

HEALTH: NA  
FIRE: NA  
REACTIVITY: NA

PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS: Contain spill. Shovel or sweep up. Prevent liquid from entering sewers, waterways, or low areas.

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: See label. Keep out of reach of children. Do not swallow. Do not get in the eyes, on skin, or on clothing. Avoid breathing mist or vapors. Keep away from heat or open flame. Wash thoroughly after handling. Keep away from food, feed and domestic water supplies.

PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: NA

VAPOR PRESSURE: <0.0001 mmHg @200F

VAPOR DENSITY (Air = 1): 10

SOLUBILITY IN WATER: Miscible

pH: NA

APPEARANCE AND ODOR: Pale yellow liquid, mild paraffinic odor.

SPECIFIC GRAVITY (H2O = 1): .88

MELTING POINT: NA

EVAPORATION RATE: NA

PLACARD: NA

SHIPPING PAPER ID: NA

REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Elevated temperatures.

INCOMPATIBILITY (Materials to Avoid): Strong oxidizers.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide and asphyxiants.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: NA

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use only a NIOSH/MESA approved respirator.

VENTILATION REQUIREMENTS: Use only with adequate ventilation.

EYES: Use chemical goggles.

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

OTHER CLOTHING AND EQUIPMENT: NA

WORK/HYGENIC PRACTICES: NA

OTHER COMMENTS

SARA HAZARD CATEGORIES:

FIRE HAZARD: N  
SUDDEN PRESSURE: N  
REACTIVE HAZARD: N  
IMMEDIATE HEALTH HAZARD: Y  
DELAYED HEALTH HAZARD: N

DISCLAIMER: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, since the actual use of the product is beyond manufacturer's control, no warranty, expressed or implied, is given and no responsibility assumed.

DATE PREPARED: 4/05/94

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COMPAS Code: 18850110