

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200
Standard must be consulted for specific requirements.

IDENTITY: MICROYL™ - CROP OIL REPLACEMENT ADJUVANT

SECTION I

MANUFACTURER'S NAME:

Precision Laboratories, Inc.

P. O. Box 127

Northbrook, IL 60065

EMERGENCY PHONE NUMBER:

800-323-6280

800-424-9300 (Chemtrec - 24 hrs.)

DATE PREPARED 10/11/99

SECTION II - HAZARDOUS INGREDIENTS

| INGREDIENT | CAS # | PERCENT | OSHA PEL | ACGIH TLV |
|-----------------------|-------|------------|------------------------|---------------------------|
| <i>Paraffinic Oil</i> | | <i>N/A</i> | <i>5mg/m3 oil mist</i> | <i>5mg/m3 as oil mist</i> |

HAZARD CLASSIFICATION: *None.*

HMIS RATING: *1-1-0-X*

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: (° F) *No data*

SPECIFIC GRAVITY (H₂O=1): *0.9*

VAPOR PRESSURE (mm HG): *No data*

MELTING POINT: *No data*

VAPOR DENSITY (AIR=1): *No data*

EVAPORATION RATE (VS. H₂O) *About the same.*

FLAMMABLE LIMITS: (STP) *No data*

pH: *5.5 ±0.5*

SOLUBILITY IN WATER *Complete.*

APPEARANCE AND ODOR: *Dark blue colored liquid with slight ammonia odor.*

SECTION IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (T.C.C.) *None to boiling.*

FLAMMABLE LIMITS: *N/A*

LEL:

UEL:

EXTINGUISHING MEDIA *Product is noncombustible. Water Spray (Fog); Dry Chemical; CO₂; or Foam may be used where product is stored.*

SPECIAL FIRE-FIGHTING PROCEDURES: *Do not enter confined fire spaces without protective clothing and self-contained air supply.*

UNUSUAL FIRE AND EXPLOSION HAZARDS: *None.*

SECTION V - REACTIVITY DATA

STABILITY

UNSTABLE

STABLE

x

INCOMPATIBILITY (MATERIALS TO AVOID) *Temperature extremes, oxidizers and peroxides.*

HAZARDOUS DECOMPOSITION PRODUCTS: *Burning may release ammonia and oxides of sulfur and carbon.*

HAZARDOUS POLYMERIZATION:

WILL OCCUR

N/A

WILL NOT OCCUR

N/A

CONDITIONS TO AVOID: *N/A*

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION? N/A SKIN? Yes INGESTION? N/A EYES? Yes

SIGNS AND SYMPTOMS OF OVEREXPOSURE (Acute): *This chemical is an aqueous solution of ammonia, sulfate and surfactant. The solution itself is pH neutral and is only a slight health hazard, but should be considered a mild irritant to skin and eyes. Ingestion may cause mild mucosal irritation, nausea and vomiting.*

SIGNS AND SYMPTOMS OF OVEREXPOSURE (Chronic): *Aeration in confined spaces may release low levels of ammonia, hydrogen cyanide and hydrogen sulfide.*

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: *None currently known.*

CARCINOGEN OR SUSPECT CARCINOGEN INGREDIENTS: *None.*

SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

INHALATION: *Remove to fresh air. Start artificial respiration, if necessary. Oxygen may be administered. Call a physician.*

EYES: *Flush with water for at least 15 minutes and call a physician immediately.* **SKIN:** *Wash with large amounts of soap and water. If irritation persists, consult a physician.* **INGESTION:** *DO NOT induce vomiting. Dilute by drinking water. Call a physician immediately.*

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE

RESPIRATORY PROTECTION: *Not required under normal use conditions. Protect against generated mists especially in confined spaces.*

VENTILATION REQUIREMENTS:

LOCAL EXHAUST: x

MECHANICAL EXHAUST:

EYE PROTECTION: *Chemical splash goggles.*

PROTECTIVE GLOVES: *Rubber/PVC*

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: *Not required under normal use conditions.*

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: *Safely stop spill at source. Dike ahead of large spills to prevent runoff. Mop, pump or take up with sand or other inert absorbent and reclaim into containers for reuse or proper disposal.*

WASTE DISPOSAL METHOD: *Dispose of in an approved waste facility according to federal, state and local regulations.*

SECTION X - STORAGE AND HANDLING INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: *Avoid skin or eye contact. Wash thoroughly after handling. Do not store at elevated temperatures above 100° F. for extended periods. Keep container closed when not in use. If product freezes, thaw and agitate before reuse.*

SECTION XI - REGULATORY INFORMATION

SARA HAZARD: *Title III, Section 313: Contains no Section 313 listed substances subject to reporting.*

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