

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: LIQUID LEAF SILVER HMIS CODES: H F R P
PRODUCT CODE: MS-S180 1 2 1 0
PREPARED FOR: UNIVERSITY OF WI-WHITEWATER

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: PLAID ENTERPRISES
ADDRESS: 1649 International Blvd., Norcross, GA 30091
EMERGENCY PHONE: 404-923-8200 INFORMATION PHONE: 404-923-8200
DATE REVISED : 05-25-98 NAME OF PREPARER : K.WAGNER
REASON REVISED : UPDATED

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

Table with 5 columns: HAZARDOUS COMPONENTS, CAS NUMBER, OSHA PEL, ACGIH TLV, OTHER, VAPOR PRESSURE mm Hg @ TEMP. Rows include COPPER POWDER and ALUMINUM POWDER.

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 282 Deg F SPECIFIC GRAVITY (H2O=1): 1.0
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C. : 4.42 LB/GL (529 G/L)
MATERIAL V.O.C.: 4.42 LB/GL (529 G/L)
SOLUBILITY IN WATER: N/A
APPEARANCE AND ODOR: Viscous liquid with odor of organic solvents.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 81 Deg F METHOD USED:
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.0% UPPER: 7.0%

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES

Use Water spray to cool containers not actively involved in fire.
Self contained breathing apparatus recommended for fire fighters.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Pressure may build up in closed containers exposed to high temperatures. Do not apply to hot surfaces.
Do not expose to sparks or open flames.

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SECTION V - REACTIVITY DATA
=====STABILITY: STABLE
CONDITIONS TO AVOID

Keep product away from heat, sparks and open flames.

INCOMPATIBILITY (MATERIALS TO AVOID)

Keep away from amines and strong reducing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

N/A

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

N/A

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SECTION VI - HEALTH HAZARD DATA
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INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Headache, nausea or impairment of reaction time and coordination.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

EYE CONTACT: Irritation, tearing, blurred vision.

SKIN CONTACT: Prolonged or repeated contact may cause irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Prolonged or repeated contact may cause irritation.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Can cause gastrointestinal irritation, vomiting, nausea, diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC)

INHALATION: Dizziness, loss of coordination.

EYE CONTACT: Severe irritation, tearing, blurred vision.

SKIN CONTACT: Can dry and defat skin causing cracking, irritation, dermatitis.

INGESTION: Can cause gastrointestinal irritation, vomiting, nausea, diarrhea.

CARCINOGENICITY: NT?? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Anesthesia, respiratory tract irritation, dermatitis and nausea.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION OVEREXPOSURE: Remove victim to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.

EYE CONTACT: Flush with large amounts of water for 15 minutes.

SKIN CONTACT: Wash area thoroughly with soap and water. See a doctor if skin irritation persists.

INGESTION: DO NOT induce vomiting. CONTACT PHYSICIAN IMMEDIATELY.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition and ventilate vapors. Absorb with an inert material.

WASTE DISPOSAL METHOD

Dispose in accordance with Local, State, and Federal waste disposal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep material from heat, sparks, and open flames. Close containers after each use.

Use only in properly ventilated areas.

Avoid excessive heat and cold.

OTHER PRECAUTIONS

Smoking in areas where this product is used should be strictly prohibited.

When transferring or handling this product, use proper bonding and grounding procedures.

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SECTION VIII - CONTROL MEASURES
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RESPIRATORY PROTECTION

Adequate ventilation is required. In confined areas, use a respirator approved by the U.S. Bureau of Mines.

VENTILATION

Provide sufficient ventilation to keep vapor concentration below given "TLV" and "LEL".

PROTECTIVE GLOVES

Required for prolonged or repeated contact.

EYE PROTECTION

Use eye protection adequate to prevent any contact of material with eyes.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

N/A

WORK/HYGIENIC PRACTICES

Wash hands before eating, drinking, and/or smoking.

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SECTION IX - DISCLAIMER
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DISCLAIMER

This information is accurate to the best knowledge of Fluid Enterprises. It is based on information from our raw material suppliers and our assessment of that information. It is furnished without expressed or implied warranties.