MATERIAL SAFETY DATA SHEET

FERRO Code Number: 33-61025

MSDS Rev.: 06-APR-1999

MSDS Print Date

Page

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name:

ORANGE LETDOWN

CAS Number

MIXTURE

HMIS Hazard Rating:

Health: 1 Fire: 1 Reactivity: 0 PPI:

Company Identification:

Ferro Corporation

L. C. & D. Division 54 Kellogg Court

Edison NJ 08817

Contact:

Dave Malysa

Telephone/Fax:

Emergency Phone (24 Hour): FERRO'S Emergency Telephone

732-287-1930 732-287-1943

1-216-641-5324 1-800-424-9300

Chemtrec (24 Hour): Preparer

Dave Malysa

Regulatory & Environmental Affairs

Trade Name

ORANGE LETDOWN

SECTION II - HAZARDOUS INFORMATION

Ingredient Name

CAS Number 'Percent

(No hazardous ingredients known at this time.)

SECTION III - PHYSICAL DATA

Vapor Pressure (mmHg): 1.@ 68.°F
Evaporation Rate:

% Volatile Weight % Volatile Volume

Not Applicable Not Applicable

Specific Gravity:

1.182

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class

198.°F

Flash Point:

Explosive Range:

Pensky-Martens Closed Cup ASTM D 93

Not Available

EXTINGUISHING MEDIA: Use foam, carbon dioxide or dry chemical

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SPECIAL FIREFIGHTING PROCEDURES

Extinguish flame from perimeter inward to main body of f: Extinguisher Media: ABC Extinguisher, Carbon Dioxide, Foam, I

Special fire fighting procedures:

Water or foam may cause frothing when applied to liquids flash points above 100 degrees C. The frothing may be qu: violent and endanger the life of the firefighter particu. when solid streams are directed into the hot burning liqu ESTER POLYOL: Firefighters must be equipped to prevent } ing of vapors or products of combustion. Wear an approve contained breathing apparatus and protective clothing. UNUSUAL FIRE & EXPLOSION HAZARDS:

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:

See Section VIII.

FIRST AID:

INHALATION: If inhaled, move individual to fresh air. N comfortably warm but not hot. Use oxygen or respiration as required. See a physician if

is present or persists.

SKIN: In case of contact, remove contaminated clothing. thoroughly with soap & plenty of water. See a phy irritation is present or persists. Launder contan clothing before reuse.

Immediately flush eyes with plenty of water for at EYE: 15 minutes and get prompt medical attention.

If swallowed, call a physician immediately. vomiting only at the instructions of a physic Never give anything by mouth to an unconsciou

SECTION VI - STABILITY AND REACTIVITY DATA

This product is stable Stability:

Hazardous Polymerization: Hazardous polymerization wil

INCOMPATIBILITY:

ESTER POLYOL: Strong oxidizers such as hydrogen peroxide bromine, and chromic acid.

CONDITIONS TO AVOID:

Keep materials with ester polyol from strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion will produce carbon dioxide and carbon monoxid

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

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Confine spill. Transfer to secure containers where neces Collect using absorbent media. Flush area with hot water detergent.

WASTE DISPOSAL METHOD:

Dispose of in accordance with Federal, State and Local regulations.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH TLV ACGIH TLV-C ACGIH STEL OSI

RESPIRATORY PROTECTION:

Where dust may be present, an approved NIOSH/MSHA dust respirator is recommended.

VENTILATION:

Mechanical Ventilation Suggested.

PROTECTIVE GLOVES:

Chemical workers gloves is recommended.

EYE PROTECTION:

Chemical goggles as needed to prevent eye contact.

OTHER PROTECTIVE EQUIPMENT:

Practice good hygiene, wash hands and face before eating smoking. Launder clothing before reuse.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Avoid contact with eyes, skin, clothing. Avoid breathing or spray. Use with good ventilation. Wash thoroughly a Store in cool, dry area in closed containers away from imaterials. Store away from sunlight, heat, sparks and cool not smoke in work area. Do not store near food or fee

OTHER PRECAUTIONS:

Since emptied containers retain product residues (vapor, solid), all hazard precautions listed in the MSDS should

SECTION X - REGULATORY INFORMATION

DISCLAIMER:

The information and recommendations contained in this Ma Data Sheet have been compiled from sources believed to k to represent the most reasonable current opinion on the the MSDS was prepared. No warranty, guaranty or represe made as to the correctness or sufficiency of the information user of this product must decide what safety measures are

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