

## MATERIAL SAFETY DATA SHEET

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FERRO Code Number: 33-61025  
MSDS Rev.: 06-APR-1999

MSDS Print Date: 11/10/05

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SECTION I - PRODUCT AND COMPANY INFORMATIONProduct Name: ORANGE LETDOWN  
CAS Number MIXTURECompany Identification: Ferro Corporation  
L. C. & D. Division  
54 Kellogg Court  
Edison NJ 08817Contact: Dave Malysa  
Telephone/Fax: 732-287-1930 732-287-1943  
Emergency Phone (24 Hour): FERRO'S Emergency Telephone  
1-216-641-5324  
Chemtrec (24 Hour): 1-800-424-9300  
Preparer James H. Fisher  
Data Coordinator

Trade Name ORANGE LETDOWN

## SECTION II - HAZARDOUS INFORMATION

Ingredient Name	CAS Number	Percent	TSCA Inv
(No hazardous ingredients known at this time.)			

## SECTION III - PHYSICAL DATA

Boiling Point: Not Available  
Vapor Pressure (mmHg): 1.@ 68.°F  
Evaporation Rate:  
% Volatile Weight Not Applicable  
% Volatile Volume Not Applicable  
Specific Gravity: 1.182

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class  
Flash Point: 388.4°F  
Tag Open Cup  
Explosive Range: Not Available

## EXTINGUISHING MEDIA:

Use foam, carbon dioxide or dry chemical

## SPECIAL FIREFIGHTING PROCEDURES

PREVENT runoff from entering streams, sewers or drinking water supply.  
Extinguish flame from perimeter inward to main body of fire.

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Extinguisher Media: ABC Extinguisher, Carbon Dioxide, Foam, Water.  
Special fire fighting procedures:  
Water or foam may cause frothing when applied to liquids having flash points above 100 degrees C. The frothing may be quite violent and endanger the life of the firefighter particularly when solid streams are directed into the hot burning liquid.  
ESTER POLYOL: Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

#### SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:  
See Section VIII.

#### EFFECTS OF OVEREXPOSURE:

At temperatures exceeding 240 degrees C, Diarylide pigments may give off traces of 3,3'-Dichlorobenzidine which is classified as a suspect carcinogen by NTP and IARC, and is regulated by OSHA as a suspect carcinogen.

#### FIRST AID:

INHALATION: If inhaled, move individual to fresh air. Make comfortably warm but not hot. Use oxygen or artificial respiration as required. See a physician if irritation is present or persists.

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

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

INGESTION: If swallowed, call a physician immediately. Induce vomiting only at the instructions of a physician. Never give anything by mouth to an unconscious person.

#### SECTION VI - STABILITY AND REACTIVITY DATA

Stability: This product is stable

Hazardous Polymerization: Hazardous polymerization will not occur

#### INCOMPATIBILITY:

Strong reducing agents, combustibles, organic materials.

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

#### CONDITIONS TO AVOID:

Do not use in polymers at temperatures exceeding 200 degrees C. Keep materials with ester polyol from strong oxidizers.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

The decomposition of Diarylide pigments in polymers heated above 200 degrees C can produce trace amounts of monoazo dyes, which could

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decompose producing Aromatic Amines. As the temperatures reach the 240-300 degree C range, trace quantities of 3,3'-Dichlorobenzidine can be found. (3,3'-Dichlorobenzidine is classified as a suspect carcinogen by NTP and IARC, and is regulated by OSHA as a suspect carcinogen.)

Oxides of Carbon & Nitrogen; incompletely burned hydrocarbons.

#### SECTION VII - SPILL OR LEAK PROCEDURES

##### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Confine spill. Transfer to secure containers where necessary, Collect using absorbent media. Flush area with hot water and 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	OSHA STEL	OSHA PEL
C.I. Pigment Orange 16	N/est	N/est	N/est	N/est	15.00 mg/M3

##### 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 or 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 vapor, mist or spray. Use with good ventilation. Wash thoroughly after handling. Store in cool, dry area in closed containers away from incompatible materials. Store away from sunlight, heat, sparks and open flames. Protect containers against physical damage. Do not smoke in work area. Do not store near food or feed.

##### OTHER PRECAUTIONS:

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Since emptied containers retain product residues (vapor, liquid or solid), all hazard precautions listed in the MSDS should be observed!

SECTION X - REGULATORY INFORMATION

-PROP 65 (CARCINOGEN)

WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
C.I. Pigment Orange 16	6505-28-8	7 - 13

May contain traces of Polychlorinated Biphenyls (PCB's).

DISCLAIMER:

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.