

MATERIAL SAFETY DATA SHEET

File Number: 33-18000

Number

Date: 06-APR-1999

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- PRODUCT AND COMPANY INFORMATION

Name: WHITE
 Description: MIXTURE
 Health: 1 Fire: 1 Reactivity: 0 PPI: X

Identification: Ferro Corporation
 L. C. & D. Division
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 Dave Malysa
 Regulatory & Environmental Affairs

Color: WHITE

I - HAZARDOUS INFORMATION

Chemical Name	CAS Number	Percent	TSCA
Dioxide	13463-67-7	40 - 70	Y

Ingredients in this product are listed in the T.S.C.A. Inventory

II - PHYSICAL DATA

Boiling Point: Not Available
 Vapor Pressure (mmHg): 1. @ 68.°F
 Evaporation Rate: Not Applicable
 Specific Weight: Not Applicable
 Specific Volume: Not Applicable
 Specific Gravity: 2.228

III - FIRE AND EXPLOSION HAZARD DATA

Flammability Class

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Flash Point: 198.°F
Pensky-Martens Closed Cup ASTM D 93
Explosive Range: Not Available

EXTINGUISHING MEDIA:

Use foam, carbon dioxide or dry chemical

SPECIAL FIREFIGHTING PROCEDURES

Extinguish flame from perimeter inward to main body of fire.

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.

UNUSUAL FIRE & EXPLOSION HAZARDS:**SECTION V - HEALTH HAZARD DATA****PERMISSIBLE EXPOSURE LEVEL:**

See Section VIII.

EFFECTS OF OVEREXPOSURE:

TITANIUM DIOXIDE: Results of a Dupont epidemiology study showed that employees who had been exposed to Titanium Dioxide pigments were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium Dioxide pigments. Based on the results of this study Dupont concluded that TiO₂ pigments will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the work place.

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

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 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:

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 monoxide.

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
Titanium Dioxide	10.00 mg/M3	N/est	N/est	N/est

RESPIRATORY PROTECTION:

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

VENTILATION:

Mechanical Ventilation Suggested.

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PROTECTIVE GLOVES:

Chemical workers gloves is recommended

EYE PROTECTION:

Chemical goggles as needed to prevent

OTHER PROTECTIVE EQUIPMENT:

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

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AN

Avoid contact with eyes, skin, clothing
or spray. Use with good ventilation.
Store in cool, dry area in closed containers
materials. Store away from sunlight,
Do not smoke in work area. Do not store

OTHER PRECAUTIONS:

Since emptied containers retain product
(solid), all hazard precautions listed

SECTION X - REGULATORY INFORMATION

DISCLAIMER:

The information and recommendations on
Data Sheet have been compiled from sources
to represent the most reasonable current
the MSDS was prepared. No warranty, guarantee
made as to the correctness or sufficiency
user of this product must decide what
safely use this product, either alone or
products, and determine its environmental
obligations under any applicable federal

*******OSHA LABEL INFORMATION*******

Avoid eye and skin contact; may cause
mist, fumes or vapors may be irritating
safe practice following incidental contact
affected area. If symptoms develop, see
to eating or smoking. For additional information
