MATERIAL SAFETY DATA SHEET

MSDS Print

3 - 1

147-14-8

ct Name: BLUE umber MIXTURE Ferro Corporation ny Identification: L. C. & D. Division 54 Kellogg Court Edison NJ 08817 Dave Malysa ct: 732-287-1930 732-287-1943 hone/Fax: ency Phone (24 Hour): FERRO'S Emergency Telephone 1-216-641-5324 rec (24 Hour): 1-800-424-9300 Dave Malysa rer Regulatory & Environmental Affairs Name BLUE ON II - HAZARDOUS INFORMATION dient Name CAS Number Perce ium Dioxide 13463-67-7 10 -

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

Not Available

ON III - PHYSICAL DATA Not Available ng Point: Pressure (mmHg): 1.@ 68.°F cation Rate: Not Applicable Not Applicable atile Weight

Pigment Blue 15 (Copper

locyanine Blue)

sive Range:

Code Number: 33-31052 Rev.: 06-APR-1999

ON I - PRODUCT AND COMPANY INFORMATION

atile Volume fic Gravity: 1.321

ON IV - FIRE AND EXPLOSION HAZARD DATA

ability Class

Point: 198.°F Pensky-Martens Closed Cup ASTM D 93

MATERIAL SAFETY DATA SHEE

FERRO Code Number: 33-31052

MSDS Rev.: 06-APR-1999

EXTINGUISHING MEDIA: Use foam, carbon dioxide or dry chemical

SPECIAL FIREFIGHTING PROCEDURES

Extinguish flame from perimeter inward to main body o

Estinguisher Media: ABC Extinguisher, Carbon Dioxide, Fo

Special fire fighting procedures:

Water or foam may cause frothing when applied to liqu

flash points above 100 degrees C. The frothing may be violent and endanger the life of the firefighter part

when solid streams are directed into the hot burning :

ESTER POLYOL: Firefighters must be equipped to preven

ing of vapors or products of combustion. Wear an app contained breathing apparatus and protective clothing UNUSUAL FIRE & EXPLOSION HAZARDS:

PHTHALOCYANINE BLUE: When involved in a fire or expos temperatures for an extended period of time, organic smolder or burn evolving noxious fumes which can inc nitrogen and carbon, or other toxic compounds.

SECTION V - HEALTH HAZARD DATA

See Section VIII.

PERMISSIBLE EXPOSURE LEVEL:

EFFECTS OF OVEREXPOSURE:

TITANIUM DIOXIDE: Results of a Dupont epidemiology st

that employees who had been exposed to Titanium Diox: pigments were at no greater risk of developing lung were employees who had not been exposed to Titanium I pigments. Based on the results of this study Dupont that TiO2 pigments will not cause lung cancer or chro

respiratory disease in humans at concentrations exper the work place.

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

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

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

If swallowed, call a physician immediately vomiting only at the instructions of a phy

MATERIAL SAFETY DATA SHEET

This product is stable

RRO Code Number: 33-31052 DS Rev.: 06-APR-1999 MSDS

zardous Polymerization: Hazardous polymerization will

TER POLYOL: Strong oxidizers such as hydrogen peroxide,

THALOCYANINE BLUE: Avoid strong oxidizing agents such a hlorates, perchlorates, nitrates, & permanganates. Oxid aterials may vigorously evolve oxygen in large amounts.

ep materials with ester polyol from strong oxidizers.

mbustion will produce carbon dioxide and carbon monoxide THALOCYANINE BLUE: When involved in a fire or exposed t emperatures for an extended period of time, organic pigm molder or burn evolving noxious fumes which can include itrogen and carbon, or hydrogen chloride (HCl), dependir

EPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED nfine spill. Transfer to secure containers where necessar llect using absorbent media. Flush area with hot water a

spose of in accordance with Federal, State and Local

ACGIH TLV ACGIH TLV-C ACGIH STEL OSHA

10 mg/M3 Total 15 mg/M3

N/est

N/est

OSHA/PEL

N/es

N/es

CTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

N/est

rticulates not otherwise classified/regulated may be sub ACGIH/TLV

Never give anything by mouth to an unconscious

CTION VI - STABILITY AND REACTIVITY DATA

ability:

COMPATIBILITY:

igment type.

ergent.

equlations.

anium Dioxide

chalocyanine Blue)

NDITIONS TO AVOID:

STE DISPOSAL METHOD:

cupational Exposure Limits

1. Pigment Blue 15 (Copper

N/est

omine, and chromic acid.

ZARDOUS DECOMPOSITION PRODUCTS:

CTION VII - SPILL OR LEAK PROCEDURES

10.00 mg/M3 N/est

MATERIAL SAFETY DATA SHEET

FERRO Code Number: 33-31052

MSDS Rev.: 06-APR-1999 MSDS

3 mg/M3 Resp. 5 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 of 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 after Store in cool, dry area in closed containers away from incomaterials. Store away from sunlight, heat, sparks and open protect containers against physical damage. Do not smoke area. Do not store near food or feed.

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 Mate

Data Sheet have been compiled from sources believed to be to represent the most reasonable current opinion on the st the MSDS was prepared. No warranty, guaranty or represent made as to the correctness or sufficiency of the information user of this product must decide what safety measures are safely use this product, either alone or in combination was products, and determine its environmental regulatory comp

obligations under any applicable federal or state laws.