MATERIAL SAFETY DATA SHEET

FERRO Code Number: 33-31004 MSDS Rev.: 06-APR-1999 _____

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SECTION I - PRODUCT AND COMPANY INFORMATION						
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Product Name: CAS Number	BLUE MIXTURE					
Company Identification:	Ferro Corpor L. C. & D. E 54 Kellogg C Edison NJ 08	Division Court				
Contact: Telephone/Fax: Emergency Phone (24 Hour):	Dave Malysa 732-287-1930 732-287-1943 FERRO'S Emergency Telephone 1-216-641-5324 1-800-424-9300 James H. Fisher Data Coordinator					
Chemtrec (24 Hour): Preparer						
Trade Name	BLUE					
SECTION II - HAZARDOUS INFORMATION Ingredient Name CAS Number Percent TSCA Inv						
C.I. Pigment Blue 15 (Copper Phthalocyanine Blue) *** ALL Ingredients in this		147-14-8 isted in the T.S.	3 - 7 .C.A. Invento:	Y ry		
SECTION III - PHYSICAL DATA Boiling Point: Vapor Pressure (mmHg): Evaporation Rate: % Volatile Weight % Volatile Volume Specific Gravity:	Not Availabl 1.@ 68.°F Not Applicab Not Applicab 1.18943	ble				
SECTION IV - FIRE AND EXPLOS Flammability Class Flash Point: Explosive Range:	SION HAZARD DA 388.4°F Tag Open Cup Not Availabl)				
EXTINGUISHING MEDIA: Use foam, carbon dioxide or dry chemical						

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SPECIAL FIREFIGHTING PROCEDURES PREVENT runoff from entering streams, sewers or drinking water supply. 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 selfcontained breathing apparatus and protective clothing. UNUSUAL FIRE & EXPLOSION HAZARDS: PHTHALOCYANINE BLUE: When involved in a fire or exposed to high temperatures for an extended period of time, organic pigments may smolder or burn evolving noxious fumes which can include oxides of nitrogen and carbon, or other toxic compounds. SECTION V - HEALTH HAZARD DATA PERMISSIBLE EXPOSURE LEVEL: See Section VIII. 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. In case of contact, remove contaminated clothing. SKIN: Wash thoroughly with soap & plenty of water. See a physician if irritation is present or persists. Launder contaminated clothing before reuse. Immediately flush eyes with plenty of water for at least EYE: 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 will not occur Hazardous Polymerization: INCOMPATIBILITY: ESTER POLYOL: Strong oxidizers such as hydrogen peroxide, bromine, and chromic acid. PHTHALOCYANINE BLUE: Avoid strong oxidizing agents such as peroxides, chlorates, perchlorates, nitrates, & permanganates. Oxidizing materials may vigorously evolve oxygen in large amounts. CONDITIONS TO AVOID: Keep materials with ester polyol from strong oxidizers. HAZARDOUS DECOMPOSITION PRODUCTS:

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Combustion will produce carbon dioxide and carbon monoxide. PHTHALOCYANINE BLUE: When involved in a fire or exposed to high temperatures for an extended period of time, organic pigments may smolder or burn evolving noxious fumes which can include oxides of nitrogen and carbon, or hydrogen chloride (HCl), depending on the pigment type. 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 Blue 15 (Copper Phthalocyanine Blue) N/est N/est N/est N/est N/est Particulates not otherwise classified/regulated may be subject ACGIH/TLV OSHA/PEL 10 mg/M3 Total 15 mg/M3 3 mg/M3 Resp. 5 mg/M3 to: 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

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

SECTION X - REGULATORY INFORMATION

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.