

MATERIAL SAFETY DATA SHEET

FERRO Code Number: 34-78050

MSDS Rev.: 05-JAN-2001

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SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: BROWN
CAS Number: MIXTURE

Company Identification: Ferro Corporation
L. C. & D. Division
54 Kellogg Court
Edison NJ 08817

Contact: Dave Malysa
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1-216-641-5324

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Preparer: Dave Malysa
Regulatory & Environmental Affairs

Trade Name: BROWN

SECTION II - HAZARDOUS INFORMATION

Ingredient Name	CAS Number	Pe
Iron Oxide	1309-37-1	30

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

SECTION III - PHYSICAL DATA

Boiling Point: Not Available
Vapor Pressure (mmHg): Not Available
Evaporation Rate:
& Volatile Weight: Not Available
& Volatile Volume: Not Available
Specific Gravity: 1.7388

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class
Flash Point: 392.°F
Pensky-Martens Closed Cup ASTM D
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.
Firefighters should wear self-contained breathing apparatus and

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protective clothing. Burning can produce oxides of carbon and nitrogen.

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:

See Section VIII.

EFFECTS OF OVEREXPOSURE:

IRON OXIDE:

ACUTE: May cause mechanical skin and eye irritation.

CHRONIC: Repeated and prolonged inhalation of iron oxide dust known to cause siderosis. On X-rays it appears to be benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as silica. TLV is set to protect against siderosis.

Eye Contact: May cause slight eye irritation.

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:

Caustic Amines, Alkanolamines, Inorganic acids.

Iron Oxides are not compatible with hydrazine, calcium hypochlorite, performic acid, and bromine pentafluoride.

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

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SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA PEL
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Iron Oxide	5.00 mg/M3	N/est	N/est	N/A
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Iron Oxide PEL (as fume) and TLV (as dust and fume).

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 and 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 dust or spray. Use with good ventilation. Wash thoroughly after use. 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 storage 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 be followed.

SECTION X - REGULATORY INFORMATION

-PROP 65 (BOTH CARCINOGEN AND TERATOGEN)

WARNING: This product may contain a chemical known to the State of California to cause cancer or birth defects or other harm.

Ingredient Name	CAS Number
Iron Oxide	1309-37-1

Although Iron Oxides themselves are not listed under Proposition 65, this product may contain trace amounts of chemicals which appear on the State of California's listing of substances known to cause cancer or birth defects or other harm.

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birth defects or other reproductive harm. (Proposition 65)

DISCLAIMER:

The information and recommendations contained in this Data Sheet have been compiled from sources believed to represent the most reasonable current opinion on the date 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 to take to safely use this product, either alone or in combination with other products, and determine its environmental regulatory obligations under any applicable federal or state laws.