

-caution-
Colorants and chemicals
should be handled with care
Keep out of reach of children
Do not ingest or inhale
Avoid unnecessary contact

MATERIAL SAFETY DATA SHEET:

PIGMENT BROWN-6

(Iron oxide: burnt umber)

Distributed by Carriage House Paper-Brooklyn NY

SECTION 1-Chemical Product and Company Identification

Product/Trade Name : TI-TINT BROWN #1	CAS. Number: Mixture	Date Printed: 20-Nov-03	Revision Date: 20-Nov-03	Supersedes: 22-Oct-03
Customer Product Code:	Product Type: Aqueous Dispersion	Chemical Name: See Section 2 for ingredients.		

SECTION 2-Composition and Information on Ingredients

<u>Ingredients:</u>	<u>CAS. No.:</u>	<u>Target %:</u>	<u>OSHA Hazard*</u>
Brown Iron Oxide	52357-70-7	50.0	Y
Water	7732-18-5	<50.0	N
Misc. dispersing/gelling agents	mixture	Proprietary	N

*The substances(s) marked with a Y in the OSHA Hazard column above, are identified as hazardous chemicals under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Exposure Limits: No specific limits are established for this dispersion; therefore the OSHA limits for nuisance levels should be observed unless otherwise noted.

OSHA PEL / 8 Hr / TWA

Total dust: 10 mg/m3

ACGIH TLV / 8 Hr / TWA

Total dust: 5 mg/m3

SECTION 3-Hazard Identification

Emergency Overview: Dust concentrations above the permissible exposure limit may cause temporary upper respiratory tract discomfort.

Potential Exposure: *Eyes:* May cause minimal mechanical eye irritation.

Skin: May cause drying of skin. Remove contaminated clothing and wash thoroughly.

Ingestion: Not likely to produce adverse effects, however should accidental ingestion occur give several glasses of water and seek medical opinion for discomfort.

Inhalation: Temporary discomfort to upper respiratory tract may occur due to inhalation of dust from dried material.

SECTION 4-First Aid Measures

- Eyes:** Flush with plenty of water for 15 minutes. Washing immediately is essential to achieve maximum effectiveness. Consult a physician if irritation develops.
- Skin:** Wash with soap and water. Launder clothes before reuse. Consult a physician if irritation persists.
- Ingestion:** If victim is conscious and alert give several glasses of water do not induce vomiting. Not hazardous. Symptomatic treatment is recommended.
- Inhalation:** Remove to fresh air, in extreme respiratory distress administer CPR / oxygen. Seek medical attention.

SECTION 5-Fire Fighting Measures

- | | | |
|--|----------------------------|---------------------------------|
| Material flammable, explosive, or combustible?
Non-flammable as supplied. | Flash Point:
N/E | Explosive Limits:
N/E |
| Combustion Hazards: None | | |
| Extinguishing Media: Use water spray, chemical foam, dry chemical, or carbon dioxide. | | |
| Protective Equipment: Wear self-contained breathing apparatus in confined areas | | |

SECTION 6-Accidental Release Measures

- Personal Protection:** Proper industrial hygienic practices with rubber gloves, safety goggles and an approved NIOSH dust/mist respirator. Launder clothes before reuse.
- Spill Procedure:** Cover with absorbent material. Sweep, shovel or vacuum into a closed container. Do not put into public waterways or sewer systems. Dispose of at an approved chemical disposal or incineration facility in compliance with all current Local, State and Federal regulations.
- CERCLA (RQ):** N/A

SECTION 7-Handling and Storage

- Handling:** Observe good industrial hygienic practices and safety practices. Avoid prolonged or repeated skin contact. Wash thoroughly before eating, drinking, smoking or applying cosmetics.
- Storage:** Protect from freezing. Mix before use. Storage temperature range 50° - 120°F recommended. Keep drums covered when not in use to avoid evaporation and/or contamination.

SECTION 8-Exposure Controls and Personal Protection

- Precautionary Statements:** Avoid contact and/or breathing dust formed from dried material and as good industrial hygiene the apparel listed below is recommended when handling. Wash exposed areas thoroughly after handling.
- Eye Protection:** Chemical safety glasses. **Gloves:** Rubber coated gloves.
- Protective Clothing:** Long sleeved work clothing. Launder clothes before reuse.
- Respiratory:** NIOSH approved dust/mist respirator in compliance with 29 CFR 1910.34.

SECTION 9-Physical and Chemical Properties

<i>Physical State</i> Liquid	<i>Color</i> Brown	<i>pH</i> 8.0+	<i>Odor</i> None
<i>Freeze Point / Boiling Point</i> 32°F / 212°F	<i>Specific Gravity</i> N/E	<i>% Active Solids</i> 50.0	<i>% Volatile by Volume</i> <50.0

SECTION 10-Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatible Materials: Concentrated acid solutions. Brown iron oxide contains manganite which when exposed to acids can liberate hazardous gases.

Hazardous Decomposition: None

SECTION 11-Toxicological Information

Routes of Exposure: As supplied primary routes of occupational exposure are eye and skin contact.

Toxicological Data: Like any nuisance dust dried material formed may aggravate pre-existing respiratory disorders like bronchitis or asthma, however no carcinogenic effect has been found in humans due to exposure.
(active ingredient)

Chronic Effects: **Carcinogenicity:** Not listed as a carcinogen by, IARC, NTP or OSHA.

SECTION 12-Ecological Information

Mobility: Liquid **Degradability:** Aqueous portion will evaporate.

Ecotoxicity: N/D

SECTION 13-Disposal Considerations

Hazardous waste classification under federal regulations (40 CFR Part 261 et seq.) is dependent upon whether the material is a RCRA "listed hazardous waste" or has any of the four RCRA "hazardous waste characteristics":

Ignitability (Section 5, flash point) **Reactivity** (Section 10, incompatible materials)

Corrosivity (Section 9 &14, pH/DOT corrosivity) **Toxicity** (Section 2 for composition.)

RCRA Status: Not regulated.

Check your State and local regulations, which may be more stringent than the federal regulations. Technical Industries, Inc. provides this data for information only; the person generating the waste is responsible for determining the waste classification and disposal method.

Container Disposal: Empty drums retain residue, observe label safeguards until the drum is clean and/or destroyed.

