

Material Safety Data Sheet

6613 Burnt Umber

Date of Preparation: 02/21/2001

Revision: 02/21/2001

Section 1 - Chemical Product and Company Identification

Product Name: 6613 BURNT UMBER

Product Class: Pigment dispersion

Chemical Type: Non-aqueous colorant

Manufacturer: BJB Enterprises, Inc., 14791 Franklin Avenue, Tustin, CA 92780, Phone (714) 734-8450, Fax (714) 734-8929, (M-Th: 8-4:30, F: 7:30-4), Emergency Phone: Chemtrec (800) 424-9300 or (703) 527-3887

Section 2 - Composition / Information on Ingredients

Ingredient Name	CASRN	% wt
1. Iron oxide	001332-37-2	10-30
2. Mineral spirits	008052-41-3	5-10
3. Silica, crystalline (quartz)	014808-60-7	1-5
4. n-Butyl alcohol	000071-36-3	1-5
5. Isobutyl alcohol	000078-83-1	1-5
6. Isobutyl acetate	000110-19-0	1-5
7. Manganese dioxide	001313-13-9	1-5
8. VM & P Naphtha	008032-32-4	1-5
9. Aluminum oxide	001344-28-1	1-5
10. Surfactant NJTSR No. 56705700001-5055P	Trade Secret	1-5
11. Surfactant NJTSR No. 56705700001-5057P	Trade Secret	1-5
12. Aliphatic petroleum distillates	064742-47-8	1-5
13. Aliphatic petroleum distillates	064742-89-8	1-5

Trace Impurities: N/A

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		OTHER LIMITS
	TWA	STEL	TWA	STEL	TWA	STEL	
#1	10 mg/m ³	NE	5 mg/m ³	NE	NE	NE	NE
#2	500 ppm	NE	100 ppm	NE	NE	NE	525 mg/m ³ TWA ONTARI
#3	0.1 mg/m ³	NE	0.1 mg/m ³	NE	NE	NE	NE
#4	100 ppm	NE	NE	NE	NE	NE	50 ppm (skin) ceiling ACGIH/OSHA
#5	100 ppm	NE	50 ppm	NE	NE	NE	NE
#6	150 ppm	NE	150 ppm	NE	NE	NE	NE
#7	NE	NE	0.2 mg/m ³ (Mn)	NE	NE	NE	5 mg/m ³ (Mn) ceiling OSHA
#8	NE	NE	300 ppm	NE	NE	NE	NE
#9	15 mg/m ³	NE	10 mg/m ³	NE	NE	NE	NE
#10	NE	NE	NE	NE	NE	NE	NE
#11	NE	NE	NE	NE	NE	NE	NE
#12	500 ppm	NE	100 ppm	NE	NE	NE	NE
#13	NE	NE	NE	NE	NE	NE	300 ppm Ashland MS

Other Exposure Limit Information: Exposure values for mineral spirits (CAS# 8052-41-3) are given as Stoddard solvent. The exposure limit for iron oxide is for dust and fume as Fe. The exposure value for crystalline silica is for the respirable fraction.

Exposure values for Aliphatic petroleum distillates (CAS# 64742-47-8) are given as Stoddard solvent.

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Flammable liquid and vapor. May cause eye, skin, and respiratory tract irritation.

Potential Health Effects

Eye Contact: According to test results on similar colorant base mixtures, this product is classified as a moderate eye irritant. May cause tearing, reddening and/or swelling.

HMIS

H 2

F 3

R 0

PPE†

†Sec. 8

Skin Contact: Possibly irritating. Prolonged or repeated contact may result in defatting and drying of the skin causing skin irritation and dermatitis (rash).

Inhalation: Possibly irritating. Excessive inhalation of solvent vapors may cause nasal and respiratory irritation and central nervous system effects including dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even death.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

General: Health studies have shown that many petroleum hydrocarbons pose potential human health risks, which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

Prolonged inhalation of iron oxide dust is known to produce a condition known as siderosis. On X-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis producing materials such as silica.

Overexposure to crystalline silica dust causes lung effects. There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica (IARC 1, OSHA). Because this product is a free-flowing liquid or paste, dust is not an expected route of exposure.

High concentrations (0.1 - 0.2% in air) of ethyl benzene will irritate eyes, mucous membrane and respiratory tract and will cause dizziness and a sense of constriction of the chest.

Section 4 - First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with water. Obtain medical attention if irritation develops or persists.

Skin Contact: Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If symptoms develop or persist, obtain medical attention. Wash clothing before reuse.

Inhalation: Remove to fresh air. If not breathing, give CPR. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

Ingestion: Aspiration of material into the lungs may cause chemical pneumonitis (damage to lungs) which may be fatal. If swallowed, do NOT induce vomiting. Have victim drink 8 - 10 ounces of water to dilute material in stomach. Get medical attention immediately. Never give anything by mouth to an unconscious person.

Section 5 - Fire-Fighting Measures

Flash Point/Method: 82°F (28°C) PMCC

OSHA Flammability Classification: Flammable liquid.

Autoignition Temperature: Not determined.

Extinguishing Media: Use water spray or fog, foam, dry chemical or carbon dioxide.

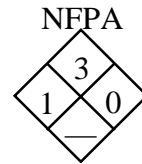
Unusual Fire or Explosion Hazards: Upper and lower explosive limits not available.

Other Flammable Properties: Flammable liquid. Vapors can travel to source of ignition and flash back.

Explosive mixtures may occur at temperatures at or above the flashpoint.

Fire-Fighting Instructions: Containers can build up pressure if exposed to heat (fire). Cool fire exposed containers with water spray. Remove containers from fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.



Section 6 - Accidental Release Measures

Spill Leak Procedures: Remove sources of ignition and ventilate area. Use a respirator and other protective equipment as outlined in Section 8. Absorb spill with inert material, then place in a chemical waste container. After removal, flush contaminated area with water. Clean up spills immediately. Obey relevant local, state and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

Section 7 - Handling and Storage

Handling Precautions: Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. The need for grounding and bonding of containers in accordance with OSHA 29 CFR 1910.106 and NFPA 77 should be assessed for all product transfers. Follow all MSDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

Storage Requirements: Store in a cool, dry place. Keep container closed when not in use.

Shelf life: 6 months, from shipping date, under manufacturers recommended storage conditions.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant a respirators use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Eye Protection: Use chemical splash goggles.

Skin Protection: Use impermeable gloves to minimize skin contact.

Other Protective Equipment: To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Section 9 - Physical and Chemical Properties

Physical State: Paste

Appearance and Odor: Brown; Petroleum distillate odor

Vapor Pressure: N/A

Vapor Density (Air=1): Is heavier than air

Specific Gravity (H₂O=1): 1.5

pH: N/A

Water Solubility: Slight

Boiling Point: N/A

Evaporation Rate: Is slower than Butyl Acetate

Viscosity: 90 - 110 KU @ 77°F (25°C)

% Volatile: 19

V.O.C. (ref EPA meth 24): 281 gm/liter

Section 10 - Stability and Reactivity

Stability: 6613 Burnt Umber is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur under normal conditions.

Chemical Incompatibilities/Conditions to Avoid: Oxidizing materials/High temperatures and sources of ignition.

Hazardous Decomposition Products: Exothermic reactions of aluminum oxide above 392°F (200°C) with halocarbon vapors produces toxic HCl and phosgene.

Section 11- Toxicological Information

Component toxicological information:

<u>Chemical Name</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
n-Butyl alcohol	2,460 mg/kg	4,200 mg/kg	8,000 ppm 4 hr
Isobutyl alcohol	2,500 mg/kg	3,400 mg/kg	>8,000 ppm 4 hr
Isobutyl acetate	13,400 mg/kg	>20,000 mg/kg	Not Available
Iron oxide	>5,000 mg/kg	Not Available	Not Available
VM & P Naphtha	5,000-15,000 mg/kg	Not Available	3,400 ppm, 4 hr
Mineral spirits	>5,000 mg/kg	>3,000 mg/kg	>5,500 mg/m ³ 4 hr
Aliphatic petroleum distillates	>8,000 mg/kg, rat	>4,000 mg/kg	>14,100 mg/m ³ , 4hr
Aliphatic petroleum distillates	Not Available	Not Available	3,400 ppm/4 hr
Aluminum oxide	>10,000 mg/kg	Not Available	Not Available

Other Toxicological Information: Crystalline silica has shown positive results in "in vitro" screening tests for mutagenicity.

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

Container Disposal: Empty containers by removing the top and inverting to allow all free flowing product to drain. To meet regulatory criteria, the container is considered empty when less than 3% remains in the container. Additional special handling is not typically required and the empty container can be discarded with other non-hazardous trash.

Note: Local disposal regulations may be more stringent and require additional restrictions or precautions. Customers should check with their local disposal company, municipal or state authority. Recycle of plastic or metal containers may require clean rather than empty containers. In this case the containers can be rinsed with mineral spirits until the containers are considered generally product free.

Section 14 - Transport Information

Shipping Name: Paint
Hazard Class: 3
ID No.: UN1263
Packing Group: III
Label: Flammable liquid

DOT (USA): Regulated, Class 3, PG III
 *Containers with a maximum NET Quantity of 4 fluid ounces or less are classified as a consumer commodity as per DOT 49 CFR 171.8
IATA/ICAO: Regulated, Class 3, PG III
IMO/IMDG: Regulated, Class 3, PG III

Section 15 - Regulatory Information

U.S. Federal Regulations:

OSHA:

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

Clean Air Act Section 112:

This product contains the following components present at or above the OSHA de minimus level and listed as Hazardous Air Pollutants:

None

This product contains the following components present at or above the OSHA de minimus level and listed as Extremely Hazardous Air Pollutants:

Manganese Compounds	CAS Number – not available	Wt. 1 - 5% (max)
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SARA TITLE III:

Section 302: This product contains the following components listed as Extremely Hazardous Substances:

None

Sections 311/312 Hazard Classification: Immediate (acute), Delayed (chronic), Fire

Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

n-Butyl alcohol	CAS Number – 000071-36-3	Wt. 5% (max)
Manganese Compounds	CAS Number – Not Available	Wt. 5% (max)

TSCA: This product or its components are listed in or exempt from the TSCA inventory requirements.

This product contains the following substances non-proprietary substances subject to export notification under Section 12 (b) of TSCA:

Isobutyl alcohol	CAS Number – 000078-83-1
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State Regulations:

California (Proposition 65):

This product contains the following substances known to the State of California to cause cancer:

Warning: Contains Silica, crystalline (quartz)	CAS Number – 014808-60-7	Wt. 5% (max)
Warning: Contains Ethyl benzene	CAS Number – 00100-41-4	Wt. 1% (max)

This product contains the following substances known to the State of California to cause adverse reproductive effects:

None

Other State Regulation Information:

Note: Silica, crystalline (airborne particles of respirable size) is listed as a carcinogen under California Proposition 65. However, the physical form of this product (a free flowing paste) precludes exposure to airborne particles of respirable size.

Section 16 - Other Information

Reason for Issue: Revised Sections 2, 9, 11 & 15

Prepared By: S.F. Marks

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