



B500-006 Burnt Sienna MSR Clr

MATERIAL SAFETY DATA SHEET

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Health: 2 Flammability: 3 Reactivity 0

PRODUCT NAME: B500-006 Burnt Sienna MSR Clr

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 22/02/02
SUPERCEDES: None
MSDS NO. B500-006

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
Ferric oxide	21-30	1309-37-1	10 mg/m3 TWA
Xylene	11-20	1330-20-7	100 ppm TWA; 435 mg/m3 TWA
Resin acids and rosin acids, esters w/glycerol	1-10	8050-31-5	No PEL established
Ethylbenzene	1-10	100-41-4	100 ppm TWA; 435 mg/m3 TWA
Hydrotreated distillate, light	1-10	68410-97-9	No PEL established
Quartz	1-10	14808-60-7	see Table Z-3
Manganese Trioxide	1-10	1317-34-6	OSHA TWA 10mg/m3 (Fe) ACGIH TWA 5 mg/m3 (Fe)
Carbon Black	<1	1333-86-4	3.5 mg/m3 TWA
Crystalline Silica	<1	14464-46-1	see Table Z-3

III. HAZARDS IDENTIFICATION

Routes of Entry: Inhalation., Ingestion., Skin contact., Eye contact.
Medical Conditions Aggravated: Respiratory disease including asthma and bronchitis. Skin disease including eczema and sensitization. Eye disease. Digestive tract disease. Liver disease. Kidney disease.

Immediate (Acute) Health Effects

Inhalation: Causes respiratory tract irritation. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Dust irritating to respiratory tract.Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Skin Contact: Moderately irritating to the skin. Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

Eye Contact: Can cause mechanical irritation if dusts are generated. { Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

Skin Absorption: Toxic and may be harmful if absorbed through the skin; may produce target organ damage. Minimal hazard in normal industrial use. May cause gastrointestinal discomfort.

Ingestion: Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea.

Target Organ Acute Toxicity:

Iron oxide dust and fume	respiratory system
Xylenes (o-, m-, p- isomers)	CNS, eyes, blood, liver, kidneys, skin, GI tract, respiratory system
Ethyl benzene	eyes, respiratory system, skin, CNS
Silica, crystalline	respiratory system, eyes (in animals: lung cancer)
Carbon black	respiratory system, eyes, lymphatic cancer

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a known human carcinogen.

Reproductive and Developmental Toxicity: A component in this product has been shown to cause birth defects and reproductive disorders in laboratory animals at doses that could be encountered in the workplace.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Skin Contact: May cause lingering affects but not likely to result in permanent damage if the exposure is eliminated. Prolonged or repeated contact may cause irritation.

Eye Contact: Upon prolonged or repeated contact, dust contact can cause mechanical irritation.

Skin Absorption: Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material.

Target Organ Chronic Toxicity: Respiratory Tract. Skin. Eyes. Nervous System. Digestive Tract. Liver. Kidneys. Blood. None known. Lungs.

Supplemental Health Hazard Information: No additional health information available.

IV. FIRST AID

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel. { Seek medical advice if symptoms persist. Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

Skin Contact: Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.

Ingestion: Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal. { Never give anything by mouth to an unconscious person. Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.

Notes to MD: No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point: -1C; 30F
Autoignition Temperature: 460 deg. C
Upper Flammable/Explosive Limit, % in air: 7.0 @ 77° F
Lower Flammable/Explosive Limit, % in air: 1.1 @ 77° F

Fire Hazards: Use process enclosures to control the level of dust in the air. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Extinguishing Media: Carbon dioxide Dry chemical Water spray Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire Fighting Instructions: Use process enclosures to control the level of dust in the air. Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Hazardous Combustion Products: Carbon monoxide

VI. ACCIDENTAL RELEASE MEASURES

Health Consideration for Spill Response: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Spill Mitigation Procedures
General Methods: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

VII. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use spark-proof tools and explosion-proof equipment. Avoid contact with material. Minimize dust generation and accumulation. Use bonding and grounding when transferring quantities of material.

Storage: Keep away from sources of ignition. Keep container closed when not in use.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls: Explosion proof ventilation as required to control airborne dust levels. Use process enclosures to control the level of dust in the air.

Protective Equipment

Respiratory Tract: Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2-1992). A written respiratory protection program, including provisions for medical certification, training, fit testing, exposure assessments, maintenance, inspection, cleaning, and convenient, sanitary storage should be implemented.

Eyes: Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

IX. PHYSICAL DATA

Physical State:	COLORED LIQUID
Odor:	STRONG SOLVENT
Solids Vol %:	49.726
Solids Wt %:	63.5732
Material VOC lbs/gal:	3.581
Material VOC gms/l:	430.0412
Weight per gallon:	9.8529

X. STABILITY AND REACTIVITY

Stability Information: Stable.

Conditions to Avoid: Avoid: heat, sparks, flame and oxidizing agents. High temperatures.

Chemical Incompatibility: Strong oxidizing agents. Strong acids. Metals. Oxidizing materials.

Hazardous Polymerization: Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Xylene	1330-20-7	Inhalation LC50 Rat : 5000 ppm/4H; Oral LD50 Rat : 4300 mg/kg; Dermal LD50 Rabbit : >1700 mg/kg
Benzene, ethyl-	100-41-4	Oral LD50 Rat : 3500 mg/kg; Dermal LD50 Rabbit : 17800 uL/kg
Carbon black	1333-86-4	Oral LD50 Rat : >15400 mg/kg; Dermal LD50 Rabbit : >3 gm/kg

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): Highly/very toxic to fish and other water organisms.

Ecological Toxicity Values:

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: The waste may be a listed and/or characteristic hazardous waste. Spent or discarded material is a hazardous waste.

Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.

Potential EPA Waste Codes: If discarded, this product is considered a RCRA ignitable waste, D001.

Components Subject to USEPA Land Disposal Restrictions:

Xylenes (o-, m-, p- isomers)	1330-20-7	19.22 %
Ethyl benzene	100-41-4	3.81 %

XIV. TRANSPORTATION INFORMATION

DOT Paint 3 UN1263 PGII

XV. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA):

Chemical Name	Regulation	CASRN	%
Carbon Black	SARA 313 Reportable:		
Alkyd Resin	Extremely Haz. Substances:		
Ferric oxide	SARA Threshold Planning Quantity:		
Xylene	California Proposition 65 Cancer List:		
Resin acids and rosin acids, esters w/glycerol	New Jersey Right To Know:		
Ethylbenzene	New Jersey Right To Know:		

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.