MATERIAL SAFETY DATA SHEET

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FOR ALL INTERNATIONAL TRANSPORTATION ACCIDENTS. . . . . .1-703-527-3887 (collect)

Health: 2 **Flammability: 1** **Reactivity 0**

PRODUCT NAME: B744-003 Mahogany W/B Grain Filler

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE:	25/09/03
SUPERCEDES:	27/02/02
MSDS NO.	B744-003

II. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	%	CAS #	PEL
calcium carbonate	31-40	471-34-1	No PEL established
BARIUM SULFATE	21-30	7727-43-7	total dust: 15 mg/m3 TWA; respirable fraction: 5 mg/m3 TWA
Emulsion			No PEL established
acrylic non volatiles	1-10	PROPRIETARY	No PEL established
propylene glycol	1-10	57-55-6	No PEL established
titanium dioxide	1-10	13463-67-7	total dust: 15 mg/m3 TWA
iron oxide	1-10	1332-37-2	ACGIH TLV: 5mg/M3 TWA OSHA STEL: 10 ppm (iron Oxide Fume as Fe)
Quartz	<1	14808-60-7	see Table Z-3
Ammonia	<1	7664-41-7	50 ppm TWA; 35 mg/m3 TWA

III. HAZARDS IDENTIFICATION

Routes of Entry: Skin contact., Eye contact., inhalation, ingestion.
Medical Conditions Aggravated: Eye disease. Respiratory disease including asthma and bronchitis. Skin disease including eczema and sensitization.

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. Can be corrosive to the respiratory tract causing severe irritation and tissue damage.

Skin Contact:	May cause skin irritation. Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. Corrosive to skin tissue. Can cause chemical burns.
Eye Contact:	Can cause mechanical irritation if dusts are generated. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue. Corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can quickly lead to permanent injury including blindness.
Skin Absorption:	No component(s) in this product is known to be absorbed through the skin. No absorption hazard in normal industrial use.
Ingestion:	No hazard in normal industrial use. Irritating to mouth, throat, and stomach. Corrosive to tissue. Can cause severe and permanent damage to mouth, throat, stomach. Aspiration may lead to lung damage.

Target Organ Acute Toxicity:

Barium sulfate	respiratory system, eyes
Titanium dioxide	respiratory system (in animals: lung tumors)
Iron oxide dust and fume	respiratory system
Silica, crystalline	respiratory system, eyes (in animals: lung cancer)
Ammonia	respiratory system, eyes, skin

Long-Term (Chronic) Health Effects:

Carcinogenicity:	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA. None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.
Reproductive and Developmental Toxicity:	No information available. Contains a substance(s) that is a possible reproductive system hazard based on high dose tests with laboratory animals.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Inhalation:	Upon prolonged and/or repeated exposure, can be corrosive to the respiratory tract causing severe irritation and tissue damage.
Skin Contact:	Prolonged or repeated contact may cause irritation. Upon prolonged or repeated contact, corrosive to skin tissue. Can cause chemical burns.
Eye Contact:	Upon prolonged or repeated contact, dust contact can cause mechanical irritation. Upon prolonged or repeated contact, may become corrosive to eye tissue. Can cause severe irritation, tearing, and burns that can lead to permanent injury including blindness.
Skin Absorption:	Skin sensitization, characterized by redness, inflammation, itching and/or burning may result from prolonged or repeated contact with this material. Upon prolonged or repeated exposure, no hazard in normal industrial use.
Target Organ Chronic Toxicity:	Nervous System. Eyes. Respiratory Tract. Skin.
Supplemental Health Hazard Information:	No additional health information available.

IV. FIRST AID

Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
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. Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists. Wash with soap and water. Get medical attention if irritation develops or persists. Wash with soap and water under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.
Ingestion:	Dilute with water and immediately induce vomitting. Never give fluids or induce vomitting if the victim is unconscious or having convulsions. Get immediate medical attention. Minimal risk of harm if swallowed. Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this MSDS.
Notes to MD:	No additional first aid information available.

V. FIRE FIGHTING MEASURES

Flammability Summary:

Flash Point:	>200 (CALC.) ^{o}F
Upper Flammable/Explosive Limit, % in air:	12.6 @ 77° F
Lower Flammable/Explosive Limit, % in air:	2.6 @ 77° F
Fire Hazards:	Use process enclosures to control the level of dust in the air. Vapors may be ignited by sparks, flames or other sources of ignition if material is above the 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:	Use methods suitable to fight surrounding fire.
Fire Fighting Instructions:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
Hazardous Combustion Products:	Carbon monoxide Ammonia Hydrogen Nitrogen containing gases

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. Avoid contact with material. Keep in air-tight containers- material is hygroscopic. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Minimize dust generation and accumulation. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Do not enter storage area unless adequately ventilated. Remove contaminated clothing and wash before reuse. Harmful or irritating material. Avoid contact and avoid breathing the material. Use only in a well ventilated area.
Storage:	Do not store near combustible materials. Keep container closed when not in use. Store in a cool place in original container and protect from sunlight. Store in a cool dry place. Isolate from incompatible materials.

VIII. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls:	Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Facilities storing or using this material should be equipped with an eyewash and safety shower. No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

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 VISCOUS LIQUID
Odor:	MILD AMINE
Solids Vol %:	51.9881

Solids Wt %:	73.4194
Material VOC lbs/gal:	1.0232
Material VOC gms/l:	122.8793
Coatings VOC lbs/gal:	1.5973
Coatings VOC gms/l:	191.8187
Weight per gallon:	15.1754

X. STABILITY AND REACTIVITY

Stability Information: Stable for one year when stored in a cool dry place. Stable. Stable under normal conditions.

Conditions to Avoid: Contamination. Visible light. None known.

Chemical Incompatibility: Acids. Aluminum alloys. Ammonia. Strong reducing agents. Metals. Strong oxidizing agents. Strong acids.

Hazardous Polymerization: Hazardous Polymerization will not occur.

XI. TOXICOLOGICAL INFORMATION

Chemical Name	CAS Number	LD50/LC50
Carbonic acid, calcium salt (1:1)	471-34-1	Oral LD50 Rat : 6450 mg/kg
1,2-Propanediol	57-55-6	Oral LD50 Rat : 20 gm/kg; Oral LD50 Mouse : 22 gm/kg; Dermal LD50 Rabbit : 20800 mg/kg
Ammonia	7664-41-7	Inhalation LC50 Rat : 2000 ppm/4H; Inhalation LC50 Mouse : 4230 ppm/1H

XII. ECOLOGICAL INFORMATION

Overview (for ingredients): No data available. This material is not expected to be harmful to the ecology.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures. The waste is a listed hazardous waste. Spent or discarded material is not expected to be a hazardous waste.

Disposal Methods: Comply with all Local, State, Federal, and Provincial Environmental Regulations. Perform waste water treatment. Dispose of in a landfill. Disposal is not likely to be regulated.

Components Subject to USEPA Land Disposal Restrictions:

No chemicals subject to land disposal restrictions. %

XIV. TRANSPORTATION INFORMATION

DOT NON REGULATED

XV. REGULATORY INFORMATION

Chemical Name	Regulation	CASRN	%
Ammonia	SARA 313 Reportable:	7664-41-7	0.06
Formaldehyde	SARA 313 Reportable:	50-00-0	0.00
Ammonia	Extremely Haz. Substances:	7664-41-7	0.06

TPQ = 500 pounds; RQ = 100 pounds (does not meet toxicity criteria but because of high production volume and recognized toxicity is considered a chemical of concern)	SARA Threshold Planning Quantity:	7664-41-7	0.06
Formaldehyde (gas)	California Proposition 65 Cancer List:	50-00-0	0.00
calcium carbonate	New Jersey Right To Know:	471-34-1	34.21
BARIUM SULFATE	New Jersey Right To Know:	7727-43-7	23.07
Emulsion	New Jersey Right To Know:		
acrylic non volatiles	New Jersey Right To Know:	PROPRIETARY	8.91
propylene glycol	New Jersey Right To Know:	57-55-6	5.85

XVI. ADDITIONAL INFORMATION

Other Information:

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MSDS glossary.