



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Thermoboard 750 [®] & Thermoboard 800 [®]	Manufacturer: Federal-Mogul Corporation 26555 Northwestern Highway Southfield, MI 48033
MSDS# BH-080	24hr Emerg # (Infotrac): 1-800-535-5053 International: 001-352-323-3500 Non-Emerg #: 248-354-9844

SECTION 2: COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Although several of the ingredients used to formulate this product may be hazardous in the raw state, the manufacturing process results in a solid, infusible form, binding and otherwise, rendering the product inert. The constituents identified below may be present in quantities greater than 1% (0.1% for carcinogens) that may be released from the product by such operations as overheating, burning, machining, abrading, or riveting.

This information provides the minimum criteria for safe usage and handling of this product. Companies using this product should develop their own occupational health program to protect employees from injury or adverse health effects.

Ingredient	CAS No.	% Weight	OSHA PEL	ACGIH TLV
Mica	12001-26-2	95	20 mppcf*	3 mg/m ³ (respirable)
Ball Clay (as Clay)	1302-87-0	<5	None Established	None Established
Crystalline Silica (Quartz)	14808-60-7	≤0.5	10 mg/m ³ (respirable) % SiO ₂ +2 30 mg/m ³ (total) %SiO ₂ +2	0.05 mg/m ³ (respirable)
Mineral Fiber	--	<5	None Established	1 f/cc
Starch	9005-25-8	<5	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³

* containing <1% crystalline silica

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

The product is not considered hazardous, but operations (e.g., overheating, burning, machining, abrading, or riveting) that can create airborne dust should be avoided. People with chronic asthma, eczema, hay fever, or chronic skin ailments should not be exposed to dust from this product.

POTENTIAL HEALTH EFFECTS

Inhalation:

Prolonged exposure to excessive concentration of dust may produce pulmonary irritation.

Skin:

Dust may cause skin irritation.

Eye:

Dust particles may cause irritation.

Ingestion:

Not a probable route of entry.

Carcinogenicity:

	COMPONENT NTP IARC OSHA
Ball Clay (as Clay) ^a	No No No
Mica	No No No
Mineral fiber ^b	No No No
Starch	No No No

^a Ball clay used in the manufacture of this product may contain up to 10% crystalline silica (quartz). IARC (Group 1) and NTP list respirable crystalline silica (quartz polymorph) as a confirmed human carcinogen. Crystalline silica should be treated as a confirmed carcinogen for hazard communication purposes.

^b The mineral fiber used has been classified as biosoluble and exonerated under ECC directive 97/69/EC, Note Q. The IARC has recently changed the classification of Mineral Fibers to Group 3 "unclassifiable" from Group 2 "possible carcinogen."

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. If irritation persists, seek medical attention.

Eye Contact: Rinse thoroughly with ample amounts of water. Seek medical attention.

Skin Contact: Wash exposed area with soap and cool water. Seek medical attention.

Ingestion: Not a probable route of entry.

SECTION 5: FIRE FIGHTING MEASURES

This product will not burn.

Flashpoint: N/A **LEL:** N/A **UEL:** N/A **Autoignition Temperature:** N/A

Extinguishing Media: Water preferred, chemical foam may be used.

Unusual Fire and Explosion Hazards: Hazardous decomposition products may be generated in fire conditions.

Special Fire-Fighting Procedure: Wear self-contained breathing apparatus when extinguishing a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

If dust is generated, remove the dust by vacuuming or wet-mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from surfaces.

SECTION 7: HANDLING AND STORAGE

Store in a cool dry place. If dust is generated during shipping, remove the dust from the container by vacuuming or wet-mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from surfaces.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Any operation which may produce dust, including machining, grinding, riveting, or abrading this product, should be adequately exhausted to prevent inhalation of dust.

Respiratory Protection: Use a NIOSH-approved respirator if there is a potential for exposure to exceed applicable PELs or TLVs. (See 29 CFR 1910.134, OSHA Respiratory Protection Standard.)

Skin Protection: If skin irritation occurs, gloves and other protective garments may be worn. Do not eat or drink while cutting this product unless hands are washed thoroughly.

Eyes: Wear safety goggles and a faceshield if there is potential for producing dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	N/A	Vapor Pressure:	N/A
Melting Point:	None	Vapor Density (air = 1):	N/A
pH:	N/A	% Volatile:	N/A
Specific Gravity:	0.8-0.9	Evaporation Rate:	N/A
Water Solubility:	Will disintegrate over time	Form, Color, and Odor:	Solid sheet, dark pink, odorless

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable at normal temperatures and storage conditions.
Incompatibility (Materials/Conditions to Avoid):	None known
Hazardous Polymerization:	Will not polymerize
Decomposition Products:	Thermal decomposition may produce such by-products as carbon monoxide, carbon dioxide, and carbon compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation:	Refer to Section 3
Skin:	Refer to Section 3
Eye:	Refer to Section 3
Ingestion:	Refer to Section 3
Acute:	None known
Chronic:	None known

SECTION 12: ECOLOGICAL INFORMATION

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Federal and state law regulates disposal of scrap material or dust as solid waste; disposal must be in accordance with federal and state laws. Contact local regulatory agencies for guidance.

SECTION 14: TRANSPORTATION INFORMATION

Proper Shipping Name:	Not regulated
Hazard Class:	N/A
Identification Number:	N/A
Packing Group:	N/A
Shipping Label:	None
Additional Marking Requirement:	None

SECTION 15: REGULATORY INFORMATION

U.S. TSCA:	Chemicals used in the manufacture of this product are listed on the U.S. Toxic Substances Control Act (TSCA) Inventory
California Proposition 65:	This product may contain quartz, an ingredient known to the State of California to cause cancer, birth defects or other reproductive effects.
SARA Title III – Section 313 Supplier Notification:	This product does not contain chemicals (1) subject to SARA Title III/CERCLA “reportable quantities” (RQs) and/or “threshold planning quantities” (TPQs) and/or (2) classified as “Toxic Chemicals” under the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.
RCRA Hazardous Waste Code:	Not Available
CERCLA Hazardous Substances:	Not Available
OSHA:	PELs have been established for mica, crystalline quartz, and starch, but not for the product.
WHMIS Classification:	Not Available

SECTION 16: OTHER INFORMATION

Abbreviations:

CAS No.:	Chemical Abstract Services Number
OSHA PEL:	U.S. Occupational Safety and Health Administration, Permissible Exposure Limit
ACGIH TLV:	American Conference of Governmental Industrial Hygienists, Threshold Limit Value (2004)
mppcf:	Million particles per cubic foot of sampled air
mg/m ³ :	Milligrams per cubic meter of sampled air
f/cc:	Fibers per cubic centimeter of sampled air
N/A:	Not Applicable
IARC:	International Agency for Research on Cancer
NTP:	National Toxicology Program
HEPA:	High efficiency particulate air
NIOSH:	National Institute of Occupational Safety and Health

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