

PRODUCT AND COMPANY IDENTIFICATION

Product Name: Thermojacket E

1

Manufacturer Name: Emergency Telephone:

Federal Mogul World Headquarters 26555 Northwestern Highway Southfield, Michigan 48033 24hr EP (INFOTRAC): 1-800-535-5053 International: (001) 352-323-3500

Non-emergency Telephone:

1-248-354-9844

Intended Use: Knitted fiberglass and basalt **Contact Person:**

sleeve MSDS Request (voicemail) 1-248-354-9844

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Solid Color: Natural

Odor: No data available.

Low hazard for usual industrial or commercial handling by trained personnel.

Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely.

Potential Health Effects

Inhalation: Not relevant, due to the form of the product.

Eye Contact: Mechanical irritation of eyes.

Skin Contact: Mechanical irritation of skin.

Ingestion: Not relevant, due to the form of the product.

Chronic Health Effects: No other specific acute or chronic health impact noted.

Target Organ(s): | Skin.

Potential Physical / Chemical Effects: This product is not flammable.

OSHA Regulatory Status: This product is not hazardous according to OSHA 29CFR 1910.1200.

Environment: The environmental hazard of the product is considered to be limited.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration*
Brown basalt yarm	None	> 90%
†Amorphous silica	7631-86-9	5 - 10%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4 FIRST AID MEASURES

Inhalation: Move into fresh air and keep at rest. Get medical attention if symptoms persist.

Eye Contact: Flush thoroughly with water for at least 15 minutes. Get medical attention if irritation persists after washing.

Skin Contact: Wash contact areas with soap and water. If irritation occurs, get medical assistance.

Ingestion: Not relevant, due to the form of the product. Dust: Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

Extinguishing Media: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media: Not applicable.

Special Fire Fighting Procedures: Use standard firefighting procedures and consider the hazards of other involved materials.

Unusual Fire & Explosion Hazards: None.

Protective Measures: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes. Wear suitable protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

Spill Cleanup Methods: Shovel up and place in a container for salvage or disposal. For waste disposal, see section 13 of the MSDS.

Environmental Precautions: No specific precautions.

7 HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Wear approved safety goggles. Observe good

[†] This chemical is hazardous according to OSHA/WHMIS criteria.

industrial hygiene practices.

Storage: Store in closed original container in a dry place. Store away from incompatible materials.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Amorphous silica	US. NIOSH	IDLH	3000 mg/m ³	
	Guide		_	
Amorphous silica	US. OSHA Z-3	TWA	20 Mppcf	
	PEL			

Consult Canadian Provincial Regulations and/or Mexican Regulations on exposure limits, if applicable.

Engineering Controls: Provide adequate ventilation. Exposure limits apply to material in dry form where dust may become airborne. Observe occupational exposure limits and minimize the risk of inhalation of dust and fumes.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Due to the physical form of the product, the ingredients are not expected to present a hazard by inhalation. Respirator type: During dust-raising work or inhalation of hot/molten material: High-efficiency particulate respirator.

Eye Protection: Risk of contact: Wear approved safety goggles.

Hand Protection: Wear protective gloves. Suitable gloves can be recommended by the glove

supplier.

Skin Protection: Risk of contact: Use skin protection.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental Exposure Controls: Environmental manager must be informed of all major spillages.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color: Natural

Odor: No data available.

Odor Threshold: No data available.

Physical State: Solid **pH:** Not applicable

Melting Point: No data available.
Freezing Point: No data available.
Boiling Point: Not applicable.
Flash Point: Not applicable.

Evaporation Rate: Not applicable. **Flammability (Solid):** No data available.

Flammability Limit - Upper (%): No data available. Flammability Limit - Lower (%): No data available.

Vapor Pressure: Not applicable.

Vapor Density (Air=1): Not applicable. Specific Gravity: No data available. Solubility in Water: No data available. Solubility (Other): Not applicable.

Partition Coefficient (n-Octanol/water): Not applicable.

Autoignition Temperature: No data available. **Decomposition Temperature:** No data available.

Viscosity: No data available.

Explosive Properties: No data available

10 STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions and recommended use.

Conditions to Avoid: None.

Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.

Possibility of Hazardous Reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Amorphous silica	3	Not Listed	Not Listed	Not Listed

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

Product Information

Acute Toxicity:

Test Results

No test data available for the product.

Other Acute: May cause mechanical irritation of skin and eyes.

Chronic Toxicity: No data available.

12 ECOLOGICAL INFORMATION

Ecotoxicity: Not expected to be harmful to aquatic organisms.

Mobility: No data available. **Persistence and Degradability:** No data available. **Bioaccumulation Potential:** No data available on bioaccumulation. 13 **DISPOSAL CONSIDERATIONS General Information:** Dispose of waste and residues in accordance with local authority requirements. Disposal recommendations are based on material as supplied. Disposal must be **Disposal Methods:** in accordance with current applicable laws and regulations, and material characteristics at time of disposal. 14 TRANSPORT INFORMATION **<u>DOT</u>** Not regulated. **TDG** Not regulated. IATA Not regulated. **IMDG** Not regulated. REGULATORY INFORMATION 15 Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information. **WHMIS Classification**: This is not a WHMIS controlled product. **Mexican Dangerous Statement:** This product is not dangerous according to Mexican regulations. **US Regulations CERCLA Hazardous Substance List (40 CFR 302.4):** Not regulated. **SARA Title III** Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated. Section 311/312 (40 CFR 370): Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating Section 313 Toxic Release Inventory (40 CFR 372): Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Not regulated.

Drug Enforcement Act: Not regulated.

TSCA

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Not regulated.

Massachusetts Right-To-Know List: Amorphous silica

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not regulated.

Minnesota Hazardous Substances List: Amorphous silica

New Jersey Right-To-Know List: Amorphous silica

Pennsylvania Right-To-Know List: Amorphous silica

Rhode Island Right-To-Know List: Not regulated.

16 OTHER INFORMATION

HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	0	0	0	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	0	0	0	В

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe Personal Protection codes: E - Safety Glasses, Gloves, Dust Respirator

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

Issued by: Federal Mogul Corporation

Issue Date: 19-Dec-2007

Supercedes Date:

SDS No.: 1009190

Disclaimer: The information provided on this data sheet was abstracted from supplier material safety data sheets and standard references in occupational health and toxicology. Federal-Mogul makes no representation or warranty with respect to the information obtained from such references. The information is however, as of the date provided, true and accurate to the best of Federal-Mogul's knowledge, and should be used to make an independent determination of the methods to safeguard workers and the environment.