



SAFETY DATA SHEET

1	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
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Product name: Thermojacket E

Supplier:

Federal-Mogul Corporation, Manchester International
Office Centre
Styal Road, Manchester M22 5TN
England
Tel: +44 (0) 161 955 5200
Fax: +44 (0) 161 955 5204

Emergency telephone:

24hr EP (INFOTRAC): 1-800-535-5053
International: (001) 352-323-3500

Intended use: Knitted fiberglass and basalt sleeve

Contact person:

MSDS Request (voicemail):
+1-248-354-9844
e-mail: Stuart.Cheung@federalmogul.com

2	HAZARDS IDENTIFICATION
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This material is not considered to be hazardous according to regulatory guidelines (see Section 15).

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.

Other health effects: No other specific acute or chronic health impact noted.

Potential physical / chemical effects: This product is not flammable.

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

3	COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical name	EC No.	CAS-No.	Concentration *	Classification	Notes
Brown basalt yarn		None	> 90%	-	-
Amorphous silica	231-545-4	7631-86-9	5 - 10%	-	-

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

The full text for all R-phrases is displayed in Section 16.

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. Get medical attention if irritation persists after washing.

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.

Inappropriate 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 for personal protective equipment.

Spill cleanup methods: Shovel up and place in a container for salvage or disposal. For waste disposal, see section 13.

Environmental precautions: No specific precautions.

7 HANDLING AND STORAGE

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

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values:

Chemical name	Source	Type	Workplace exposure limits	Notes
Amorphous silica (Respirable dust.)	EH40/2005	TWA	2.4 mg/m ³	
Amorphous silica (Inhalable dust.)	EH40/2005	TWA	6 mg/m ³	

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

Respiratory protection: During dust-raising work: Due to the physical form of the product, the ingredients are not expected to present a hazard by inhalation. Use respiratory equipment with particle filter, type P2. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

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 arm 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**

Physical state: Solid

Colour: Natural

Odour: No data available.

Odour threshold: No data available.

pH: Not applicable

Melting point: No data available.

Freezing point: No data available.

Boiling Point: Not applicable

Relative density: No data available.

Vapour pressure: Not applicable

Vapour density (air=1): Not applicable

Evaporation rate: Not applicable

Solubility in water: No data available.

Solubility (other): Not applicable

Partition coefficient (n-octanol/water): Not applicable

Viscosity: No data available.

Flash point: Not applicable

Autoignition temperature: No data available.

Flammability limit - lower(%): No data available.

Flammability limit - upper (%): 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.

Materials to avoid: No data available

Hazardous decomposition products: No data available.

Possibility of hazardous reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

Inhalation: Mechanical irritation of respiratory system.

Eye contact: Mechanical irritation of eyes.

Skin contact: Mechanical irritation of skin.

Ingestion: No adverse effects due to ingestion are expected.

Sensitisation: No data available.

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.

Mutagenesis: No data available.

Reproductive toxicity: No data available.

Other effects: No other specific acute or chronic health impact noted.

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 methods: Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

European waste codes

Unused product: 16 03 03*

Container: 15 01 02

14	TRANSPORT INFORMATION
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ADR/RID Not regulated.

IMDG Not regulated.

IATA Not regulated.

15	REGULATORY INFORMATION
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The product has not been classified as dangerous according to the legislation in force.

16	OTHER INFORMATION
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Wording of the R-phrases in sections 2 and 3: None

Inventory status: All ingredients are either listed or exempt from listing on EINECS/ELINCS.

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Disclaimer: The information provided on this data sheet was abstracted from supplier 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.