SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: NT-40

Product No.: 5431024001

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: Used as lacing tape to bundle wire harnesses, or sleeves around wire harnesses

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

2 HAZARDS IDENTIFICATION

The product has been classified according to the legislation in force. 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 ingredients may be released from the product by operations such as overheating, burning, machining, abrading, or riveting.

Classification: | Xi; R38 |

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

Potential health effects

Inhalation: The ingredients may be released from the product by operations such as overheating, burning, machining, abrading, or riveting.

Eye contact: The ingredients may be released from the product by operations such as overheating, burning, machining, abrading, or riveting. Dust in the eyes will cause irritation.

Skin contact: The ingredients may be released from the product by operations such as overheating, burning, machining, abrading, or riveting. Irritating to skin.

Ingestion: May cause discomfort if swallowed.

Other health effects: Chronic exposure to fiber dust may cause permanent lung injury.

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

Environment: No data available.

3 COMPOSITION/INFORMATION ON INGREDIENTS

General information: The ingredients may be released from the product by operations such as overheating, burning, machining, abrading, or riveting.

Chemical name	EC No.	CAS-No.	Concentration *	Classification	Notes
Aluminoborosilicate Fibers		12788-79-3	30 - 60%	-	-
Refractory ceramic fibres	266-046-0	65997-17-3	20 - 30%	Xi;R38	-
Poly (isophthaloyl-chloride-m-phenylen ediamine) coating mixture	Polymer	25765-47-3	20 - 30%	-	-
Coating mixture		None	10 - 15%	-	-
Polytetraflouroethylene	Polymer	9002-84-0	< 1%	-	-

* 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 injured person into fresh air and keep person calm under observation. If necessary, seek hospital and take along these instructions.

Eye contact: Flush thoroughly with water for at least 15 minutes. Dust in the eyes: Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if irritation persists after washing.

Skin contact: Wash contact areas with soap and water. Get medical attention promptly if symptoms occur after washing.

Ingestion: If swallowed, rinse mouth with water (only if the person is conscious).

5 FIRE-FIGHTING MEASURES

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

Inappropriate extinguishing media: None.

Special fire fighting procedures: Use standard firefighting procedures and consider the hazards of other involved materials.

Unusual fire & explosion hazards: The product is non-combustible. If heated, toxic vapours may be formed.

Hazardous combustion products: Carbon dioxide, Carbon monoxide, Fluoride fumes, Hydrogen chloride, Nitrogen oxides

Protective measures: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid dust formation. Avoid inhalation of dust and contact with skin and eyes. Wear necessary protective equipment. See Section 8 for personal protective equipment.

Spill cleanup methods: Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

Environmental precautions: Avoid discharge into water courses or onto the ground. Collect and dispose of spillage as indicated in section 13.

Notification procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

7 HANDLING AND STORAGE

Handling: Avoid dust formation. Provide adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Use work methods which minimise dust production. Wear suitable protective clothing and gloves. Observe good industrial hygiene practices.

Storage: Store in tightly closed original container. Store away from incompatible materials. Avoid conditions which create dust. Protect against direct sunlight.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values: No exposure limits noted for ingredient(s). During processing irritating fumes and dust may be formed. OELs (8-hour TWA) for inhalable dust: 10 mg/m3; respirable dust 4 mg/m3.

Engineering controls: Provide sufficient ventilation for operations causing dust formation. Observe good industrial hygiene practices.

Respiratory protection: During dust-raising work: Use respiratory equipment with particle filter, type P1. 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 protective gloves and goggles/face shield.

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

Skin protection: Risk of contact: Wear suitable protective clothing.

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: No data available.
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): No data available.
Evaporation rate: Not applicable
Solubility in water: Insoluble
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Viscosity: Not applicable
Flash point: No data available.
Autoignition temperature: No data available.
Flammability limit - lower(%): No data available.
Flammability limit - upper (%): No data available.

10 STABILITY AND REACTIVITY

Stability: Material is stable under normal conditions.

Conditions to avoid: Strong oxidising agents.

Materials to avoid: Strong Acid Contact

Hazardous decomposition products:

At elevated temperatures:	Carbon dioxide, Carbon monoxide, Fluoride fumes, Hydrogen chloride, Nitrogen oxides

Possibility of hazardous reactions: Will not occur.

11 TOXICOLOGICAL INFORMATION

Inhalation: Dust may irritate respiratory system.

Eye contact: Dust may irritate the eyes. Exposed may experience eye tearing, redness, and discomfort.

Skin contact: Irritating to skin.

Ingestion: May cause discomfort if swallowed.

Sensitisation: No data available.

Listed carcinogens:

Chemical name	IARC	NTP	OSHA	ACGIH
Refractory ceramic fibres	Not listed	Listed	Not listed	A2

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: Limited evidence of a carcinogenic effect.

12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility: The product is insoluble in water and will sediment in water systems.

Persistence and degradability: The product contains inorganic compounds which are not biodegradable.

Bioaccumulation potential: No data available.

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

ADR/RID Not regulated.

IMDG Not regulated.

IATA Not regulated.

15 REGULATORY INFORMATION

Irritant.

R38; Irritating to skin.

S24/25; Avoid contact with skin and eyes. S36/37/39; Wear suitable protective clothing, gloves and eye/face protection. S60; This material and its container must be disposed of as hazardous waste.

16 OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3: R38; Irritating to skin.

Inventory status: Not all substances are listed on EINECS.

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