

# **MATERIAL SAFETY DATA SHEET**

# 1. Product and Company Identification

Material name TwistWrap 2401

Version # 01

Issue date 11-July-2013

Revision date - Supersedes date -

CAS # Mixture

Product use Textile Sleeving

Manufacturer/Supplier Federal-Mogul World Headquarters

26555 Northwestern Highway Southfield, Michigan 48033

USA

Contact Person: MSDS Request (voicemail) 1-248-354-9844

**Emergency** 24hr EP (INFOTRAC): 1-800-535-5053

International: (001) 352-323-3500

Non-emergency Telephone: 1-248-354-9844

### 2. Hazards Identification

Physical state Solid.

Appearance Textile Sleeving.

Emergency overview Under normal conditions of processing and use, exposure to the chemical constituents in this

product is unlikely. Used as intended, this product is not expected to generate potentially

hazardous quantities of dust or fumes.

**OSHA** regulatory status

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

Potential health effects

**Routes of exposure**Not relevant, due to the form of the product in its manufactured and shipped state.

EyesNo adverse effects due to eye contact are expected.SkinNo adverse effects due to skin contact are expected.InhalationNo adverse effects due to inhalation are expected.IngestionNot relevant, due to the form of the product.

**Chronic effects**Not relevant, due to the form of the product. **Signs and symptoms**Not relevant, due to the form of the product.

Potential environmental effects 
Not relevant, due to the form of the product in its manufactured and shipped state.

## 3. Composition / Information on Ingredients

Components	CAS#	Percent	
Carbon Black	1333-86-4	< 1.2	

**Composition comments** This product does not generate dust when used as intended. Under normal processing conditions,

carbon black is considered to be safe through encapsulation in the textile sleeving.

## 4. First Aid Measures

First aid procedures

**Eye contact** No specific first aid measures noted. However, immediately flush with plenty of water for at least

15 minutes.

Skin contact

No adverse effects due to skin contact.

Inhalation

No specific first aid measures noted.

**Ingestion** No adverse effects due to ingestion are expected.

Notes to physician Treat symptomatically.

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protect themselves.

## 5. Fire Fighting Measures

Flammable properties This product is not flammable. Will burn if involved in a fire.

None.

Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

**Protection of firefighters** 

Specific hazards arising from the chemical

By heating and fire, toxic vapors/gases may be formed.

Protective equipment and precautions for firefighters

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

Fire fighting

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion products

Avoid exposing to temperatures greater than 300°C for prolong periods of time. At this temperature, thermal decomposition starts to occur producing by-products such as carbon

monoxide and trace amounts of esters, alcohols, acids and acetaldehyde.

### 6. Accidental Release Measures

Personal precautions Used as intended, this product is not expected to generate potentially hazardous quantities of dust

or fumes. See Section 8 of the MSDS for Personal Protective Equipment.

**Environmental precautions** No special environmental precautions required.

Methods for containment Collect and dispose of spillage as indicated in Section 13 of the MSDS.

Methods for cleaning up No specific precautions.

# 7. Handling and Storage

**Handling** Normal handling and use of this product should not generate dust or fumes. The intended use of

this product does not include its milling, grinding or saw cutting. Observe good industrial hygiene

practices.

**Storage** Store at less than 40°C to avoid physical property changes.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Carbon Black (CAS	PEL	3.5 mg/m3	
1333-86-4)			

### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Carbon Black (CAS	TWA	3.5 mg/m3	
1333-86-4)			

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Carbon Black (CAS	TWA	3 mg/m3	Inhalable
1333-86-4)		-	

## Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	
Carbon Black (CAS	TWA	3.5 mg/m3	
1333-86-4)		<del>-</del>	

### Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value	
Carbon Black (CAS	TWA	3.5 mg/m3	

### Mexico. Occupational Exposure Limit Values

Components	Туре	Value	
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
•	TWA	3.5 mg/m3	

**Engineering controls**Used as intended, this product is not expected to generate potentially hazardous quantities of dust or fumes. No special control measures are required for the normal handling and dispensing of this

medication.

Personal protective equipment

Eye / face protection No special precautions.

**Skin protection** No skin protection is ordinarily required under normal conditions of use.

**Respiratory protection** No protection is ordinarily required under normal conditions of use and with adequate ventilation.

General hygiene considerations

Wash hands after handling.

## 9. Physical & Chemical Properties

Appearance Textile Sleeving.

**Physical state** Solid. **Form** Solid. Color Black. Odor Odorless. **Odor threshold** Not applicable. Not applicable. pН Vapor pressure Not applicable. Vapor density Not applicable. **Boiling point** Not applicable.

Melting point/Freezing point 482 - 491 °F (250 - 255 °C)

Solubility (water) Insoluble in water.

Specific gravity 1.38

**Flash point** 698.0 °F (370.0 °C)

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

Auto-ignition temperature 932 °F (500 °C)

Viscosity Not applicable.

Other data

**Explosive properties** Not applicable.

Flammability (solid, gas) Will burn if involved in a fire.

Oxidizing properties Not applicable.

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions.

Conditions to avoid No special precautions.

Incompatible materials Strong acids. Alkalis.

Hazardous decomposition

products

Avoid exposing to temperatures greater than 300°C for prolong periods of time. At this temperature, thermal decomposition starts to occur producing by-products such as carbon

monoxide and trace amounts of esters, alcohols, acids and acetaldehyde.

Possibility of hazardous

reactions

Will not occur.

## 11. Toxicological Information

**Sensitization** Not a skin sensitizer.

Acute effects Used as intended, this product is not expected to generate potentially hazardous quantities of

dust or fumes.

**Chronic effects** Not relevant, due to the form of the product.

Carcinogenicity Inhalation of black pigment dust may cause cancer, however due to the physical form of the

product inhalation of dust is not relevant.

**ACGIH Carcinogens** 

Carbon Black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

MutagenicityNot relevant, due to the form of the product.Reproductive effectsNot relevant, due to the form of the product.Symptoms and target organsNot relevant, due to the form of the product.

Further information Under normal processing conditions, carbon black is considered to be safe through encapsulation

in the textile sleeving.

12. Ecological Information

**Ecotoxicity** Not relevant, due to the form of the product in its manufactured and shipped state.

Persistence and degradability Not relevant.

Bioaccumulation / Not relevant.

Accumulation

Partition coefficient Not applicable.

Mobility in environmental

media

Not relevant, due to the form of the product.

### 13. Disposal Considerations

**Disposal instructions** 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.

Waste from residues / unused

products

Dispose of waste and residues in accordance with local authority requirements.

**Contaminated packaging**Since emptied containers retain product residue, follow label warnings even after container is

emptied.

## 14. Transport Information

DOT

Not regulated as a hazardous material by DOT.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

**TDG** 

Not regulated as dangerous goods.

## 15. Regulatory Information

US federal regulations

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

No

SARA 311/312 Hazardous

No

chemical

**Drug Enforcement** 

Not controlled

Administration (DEA) (21 CFR

1308.11-15)

Canadian regulations This product is not classified according to WHMIS classification criteria.

WHMIS status Non-controlled

#### Inventory status

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

State regulations

WARNING: This product contains chemical(s) known to the State of California to cause cancer.

US - California Hazardous Substances (Director's): Listed substance

Carbon Black (CAS 1333-86-4) Listed

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Carbon Black (CAS 1333-86-4) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon Black (CAS 1333-86-4) Listed: February 21, 2003 Carcinogenic.

US - New Jersey RTK - Substances: Listed substance

Carbon Black (CAS 1333-86-4) Listed.

**US. Massachusetts RTK - Substance List** 

Carbon Black (CAS 1333-86-4) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Carbon Black (CAS 1333-86-4) Listed.

16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS®** ratings Health: 0

Flammability: 1 Physical hazard: 0

NFPA ratings

Health: 0 Flammability: 1 Instability: 0

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.