



# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** ReflectWrap 1492

**Manufacturer Name:**

Federal Mogul World Headquarters  
26555 Northwestern Highway  
Southfield, Michigan 48033

**Emergency Telephone:**

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

**Non-emergency Telephone:**

1-248-354-9844

**Intended Use:** Industrial chemical

**Contact Person:**

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

## 2 HAZARDS IDENTIFICATION

**Emergency Overview**

**Physical State:** Solid

**Color:** Gray

**Odor:** None

ReflectWrap 1492 is a flexible, self-closing, aluminized sleeve that provides excellent protection against radiant and reflective heat sources for critical engine and exhaust system components. The patented design of ReflectWrap 1492 incorporates an integral hook and loop closure with a self-sealing adhesive reinforcement. This unique design offers ease of installation in closed end applications, as well as resistance to extreme heat and fluids and mechanical abrasion protection. 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.

**Potential Health Effects**

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

**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. Molten material will produce thermal burns.

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

**Chronic Health Effects:** None known.

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

**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	CAS-No.	Concentration*
Polyester Monofilament	None	60 - 90%
Polyester Fill Yarn	None	< 1%
Aluminized Film	None	1 - 10%

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

† This chemical is hazardous according to OSHA criteria.

### 4 FIRST AID MEASURES

**Inhalation:** If symptomatic, move to fresh air. Get medical attention if any discomfort continues.

**Eye Contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

**Skin Contact:** Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

**Ingestion:** Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort occurs.

### 5 FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable Extinguishing Media:** Not applicable.

**Special Fire Fighting Procedures:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Unusual Fire & Explosion Hazards:** None known.

**Hazardous Combustion Products:** Carbon Dioxide, Carbon Monoxide

### 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid generation and spreading of dust. Avoid contact with spilled material. Wear appropriate personal protective equipment. See Section 8 of the MSDS 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:** Collect and dispose of spillage as indicated in section 13 of the MSDS. Avoid discharge into drains, water courses or onto the ground.

**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:** The ingredients may be released from the product by operations such as overheating, burning, machining, abrading, or riveting. Avoid dust formation. Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

**Storage:** Store in a cool, dry place. Store in tightly closed original container. Avoid conditions which create dust. Store away from incompatible materials.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:** No exposure limits noted for ingredient(s) on ACGIH, OSHA and WEEL lists. Consult Canadian Provincial Regulations and/or Mexican Regulations on exposure limits, if applicable. However, ACGIH has limits for "nuisance dusts" which is TLV-TWA = 10 mg/m<sup>3</sup>.

**Engineering Controls:** Provide adequate ventilation. If dust or fumes are generated during use, use local exhaust in combination with general ventilation as necessary to remove fumes/dust from the workers' breathing zone and to ensure exposures do not exceed applicable limits.

**Respiratory Protection:** During dust-raising work or inhalation of hot/molten material: Use a NIOSH-approved respirator (See 29 CFR 1910.134, respiratory protection standard).

**Eye Protection:** Use tight fitting goggles if dust is generated.

**Hand Protection:** Gloves are recommended for prolonged use.

**Skin Protection:** Risk of contact: Thermally protective apron and long sleeves are recommended when volume of hot material is significant.

**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:** Gray

**Odor:** None

**Odor Threshold:** No data available.

**Physical State:** Solid

**pH:** Not applicable

**Melting Point:** 239°C (462°F) - 334°C (633°F)

**Freezing Point:** Not applicable.

**Boiling Point:** No data available.

**Flash Point:** No data available.

**Evaporation Rate:** No data available.

**Flammability (Solid):** No data available.

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

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

**Vapor Pressure:** No data available.

**Vapor Density (Air=1):** No data available.

**Specific Gravity:** 2.2

**Solubility in Water:** Insoluble

**Solubility (Other):** No data available.

**Partition Coefficient (n-Octanol/water):** No data available.

**Autoignition Temperature:** No data available.

**Decomposition Temperature:** No data available.

**Viscosity:** Not applicable.

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Stability:** This product is stable under expected conditions of use.

**Conditions to Avoid:** Excessive heat.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:**

At Elevated Temperatures:	Esters
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**Possibility of Hazardous Reactions:** Will not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**Specified Substance(s)**

**Acute Toxicity:**

**Test Results:** No test data available for the ingredients.

**Listed Carcinogens:** None.

**Product Information**

**Acute Toxicity:**

**Test Results**

No test data available for the product.

**Other Acute:** The ingredients may be released from the product by operations such as overheating, burning, machining, abrading, or riveting. Dusts may irritate the respiratory tract, skin and eyes.

**Chronic Toxicity:** No data available.

**12 ECOLOGICAL INFORMATION**

**Ecotoxicity:** No data available.

**Mobility:** The product is insoluble in water.

**Persistence and Degradability:** No data available.

**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.

**14 TRANSPORT INFORMATION**

**DOT** Not regulated.

**TDG** Not regulated.

**IATA** Not regulated.

**IMDG** Not regulated.

**15 REGULATORY INFORMATION**

**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.

**Inventory Status:** All ingredients are either listed or exempt from listing on TSCA.

**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:** Not regulated.

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

**Minnesota Hazardous Substances List:** Not regulated.

**New Jersey Right-To-Know List:** Not regulated.

**Pennsylvania Right-To-Know List:** Not regulated.

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

<b>16</b>	<b>OTHER INFORMATION</b>
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### **HAZARD RATINGS**

	Health Hazard	Fire Hazard	Instability	Special Hazard
<b>NFPA</b>	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
<b>HMIS</b>	0	0	0	E

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

Personal Protection codes: J - Goggles, Gloves, Apron, Dust, Vapor Respirator

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

**Issued by:** Federal Mogul Corporation

**Issue Date:** 10-Apr-2008

**Supercedes Date:**

**SDS No.:** 3E-1492

**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.