



# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** FlatWrap 2535

**Manufacturer Name:**  
Federal Mogul Corporation  
26555 Northwestern Highway  
Southfield MI 48034

**Emergency Telephone:**  
24hr EP (Infotrac): 1-800-535-5053  
International: 001-352-323-3500

**Non-emergency Telephone:**

248-354-9844

**Intended Use:** Low bulk protector with open hinge construction allows for quick and easy installation. Its thin profile is flexible in the longitudinal direction, which allows for bending during routing and installation.

## 2 HAZARDS IDENTIFICATION

### Emergency Overview

**Physical State:** Solid

**Color:** Various

**Odor:** Odorless

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, but operations (e.g. overheating, burning, abrading, machining) that can create airborne dust or vapors should be avoided. All ingredients are tightly bound in a polymeric matrix that has a negligible vapor pressure so there is a low potential for inhalation or ingestion of ingredients.

FlatWrap 2535 is an advanced textile structure engineered to facilitate the installation of round wire bundles into tight or confined spaces. Woven with lightweight thermoplastic yarns, the product maintains wire bundles in a flat, low profile. By forcing the wires to lay in a flat position, the bundle size is reduced, allowing routing through confined areas such as under carpet, headliner, under seat and door harness applications.

### Potential Health Effects

**Inhalation:** Dust or fumes from burning this material may cause respiratory irritation with coughing, difficulty in breathing or shortness of breath.

**Eye Contact:** Dust and decomposition products may cause eye irritation.

**Skin Contact:** Molten material can cause thermal burns.

**Ingestion:** Not a probable route of entry.

**Potential Physical / Chemical Effects:** This product is inherently flame resistant, but may ignite at temperatures exceeding 600 degrees C in an oxygen-enriched atmosphere.

**OSHA Regulatory Status:** When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

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

<b>3</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
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The components are not hazardous.

Chemical Name	CAS-No.	Concentration*
Polyester	None	>90%
Miscellaneous	None	<10%

<b>4</b>	<b>FIRST AID MEASURES</b>
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**Inhalation:** Get medical attention if any discomfort continues. Move into fresh air and keep at rest.

**Eye Contact:** Dust in the eyes: Flush eyes thoroughly with water, taking care to rinse under eyelids. If irritation persists, continue flushing for 15 minutes, rinsing from time to time under eyelids. If discomfort continues, consult a physician.

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

**Ingestion:** Rinse mouth thoroughly. Drink a few glasses of water or milk. Get medical attention if symptoms occur.

<b>5</b>	<b>FIRE-FIGHTING MEASURES</b>
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**Extinguishing Media:** This product is inherently flame resistant, but may ignite at temperatures exceeding 600 degrees C in an oxygen-enriched atmosphere. 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:** By heating and fire, harmful vapors/gases may be formed.

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

**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 eyes and prolonged skin contact. Wear necessary protective equipment. 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:** All handling to take place in well-ventilated area. Avoid inhalation of dust and contact with skin and eyes. Do not breathe fumes produced at elevated temperatures. Periodically clean work and storage areas to prevent dust accumulation. Observe good industrial hygiene practices.

**Storage:** Store in a cool, dry place out of direct sunlight. Keep container closed.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits:** No exposure limits noted for ingredient(s). However ACGIH have limits for "nuisance dusts" which is TLV-TWA = 10mg/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:** It is a good industrial hygiene practice to minimize skin contact. Thermally protective, chemical resistant 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:** Various

**Odor:** Odorless

**Odor Threshold:** No data available.

**Physical State:** Solid

**pH:** Not applicable  
**Melting Point:** app. 250°C (482°F)  
**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:** Insoluble  
**Solubility (Other):** Not applicable.  
**Partition Coefficient (n-Octanol/water):** Not applicable.  
**Autoignition Temperature:** No data available.  
**Decomposition Temperature:** No data available.  
**Explosive Properties:** No data available

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Stability:** Stable under normal temperature conditions and recommended use.

**Conditions to Avoid:** Excessive heat.

**Incompatible Materials:** Strong bases. 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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**General Information:** Toxicity data for the product ingredients are not available. The evaluation is based on the toxicity of a similar product.

**Listed Carcinogens:** None

**Product Information**

**Other Acute:** Dusts may irritate the respiratory tract, skin and eyes.

<b>12</b>	<b>ECOLOGICAL INFORMATION</b>
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**Ecotoxicity:** Not expected to be harmful to aquatic organisms.

**Mobility:** The product is non-volatile. The product is insoluble in water.

**Persistence and Degradability:** No data available

**Bioaccumulation Potential:** No data available on bioaccumulation.

<b>13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**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.

<b>14</b>	<b>TRANSPORT INFORMATION</b>
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**DOT** Not Regulated

**TDG** Not Regulated

**IATA** Not Regulated

**IMDG** Not Regulated

<b>15</b>	<b>REGULATORY INFORMATION</b>
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**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:** Does not meet the criteria for a controlled product.

**Inventory Status**

**This product or all components are listed on the following inventory:** DSL, TSCA

**US Regulations**

**CERCLA Hazardous Substance List (40 CFR 302.4):** None

**SARA Title III**

**Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):** None

**Section 313 Toxic Release Inventory (40 CFR 372):** None

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** None

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** None

**Drug Enforcement Act:** None

**TSCA:** No component is listed on TSCA Sections 4(a), 5(a)(2), 5(e) or 12(b).

**State Regulations****California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** None**Massachusetts Right-To-Know List:** None**Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):** None**Minnesota Hazardous Substances List:** None**New Jersey Right-To-Know List:** None**Pennsylvania Right-To-Know List:** None**Rhode Island Right-To-Know List:** None

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

	Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
<b>NFPA</b>	0	0	0	0

	Health Hazard	Fire Hazard	Reactivity Hazard	Personal Protection
<b>HMIS</b>	0	1	0	E

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

E - Safety Glasses, Gloves &amp; Dust Respirator

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