



MATERIAL SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Roundit Therm-C

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: Roundit Therm-C is a wrappable multi layer sleeve with an intumescent coating that expands at elevated temperatures to protect enclosed wiring from the effects of thermal environments that exceed 230 degrees.

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

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Solid

Color: Natural

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. 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.

Potential Health Effects

Inhalation: Dust may irritate throat and respiratory system and cause coughing. Fumes from burning this material may cause respiratory irritation with coughing, difficulty in breathing or shortness of breath.

Eye Contact: Dust may irritate the eyes. Decomposition products may cause eye irritation.

Skin Contact: Prolonged skin contact may cause temporary irritation.

Ingestion: No adverse effects due to ingestion are expected.

Potential Physical / Chemical Effects: This product is not flammable.

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

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

3	COMPOSITION / INFORMATION ON INGREDIENTS
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Chemical Name	CAS-No.	Concentration*
Pyroblock	Trade secret	> 50%
Additives	Trade secret	30 - 40%

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

4	FIRST AID MEASURES
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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.

5	FIRE-FIGHTING MEASURES
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Extinguishing Media: This product is not flammable. 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
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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.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: No exposure limits noted for ingredient(s) on ACGIH, OSHA and WEEL lists. However, ACGIH has limits for "nuisance dusts" which is TLV-TWA = 10 mg/m³. Consult Canadian Provincial Regulations and/or Mexican Regulations on exposure limits, if applicable.

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: Natural

Odor: Odorless

Odor Threshold: No data available.

Physical State: Solid

pH: Not applicable

Melting Point: No data available.

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.
Viscosity: No data available.
Explosive Properties: No data available

10	STABILITY AND REACTIVITY
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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.

11	TOXICOLOGICAL INFORMATION
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Listed Carcinogens: None.

Product Information

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

Chronic Toxicity: No data available.

12	ECOLOGICAL INFORMATION
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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.

13	DISPOSAL CONSIDERATIONS
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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.

14	TRANSPORT INFORMATION
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DOT Not regulated.

TDG Not regulated.

IATA Not regulated.

IMDG Not regulated.

15	REGULATORY INFORMATION
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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: This is not a WHMIS controlled product.

Mexican Dangerous Statement: This product is not dangerous according to Mexican regulations.

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.

16	OTHER INFORMATION
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HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	0	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
HMIS	0	1	0	E

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

Personal Protection codes: E - Safety Glasses, Gloves, Dust Respirator

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

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