



# Safety Data Sheet

## REMA Tire Repair Materials

Product #s: 5161180

SDS #: RTT-TRM-217

Version 1

Rev. Date: 3/29/2017

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** MTR-CR Rope

**Chemical Family:** Uncured Rubber Polymers

**Product Use:** Tire Repairs & Retreading

**Restrictions on Use:** Use as directed by manufacturer

**Distributed By:** Rema Tip Top/North America, Inc  
1500 Industrial Blvd.  
Madison, GA 30650  
Phone: 706-752-4000

**24-Hour Emergency Phone Number:** North America: 800-424-9300 (CHEMTREC)  
International: 703-527-3887 (CHEMTREC) Collect Calls Accepted

### 2. HAZARD IDENTIFICATION

#### GHS Classifications

##### **Health Hazards**

Skin Irritation, Category 3  
Eye Irritation, Category 2B  
Skin Sensitization, Category 1B  
Carcinogenicity, Category 2

##### **Environmental Hazards**

Chronic Aquatic Toxicity, Category 3

#### **GHS-Labeling**

##### **Pictograms:**



**Signal Word:** Warning

#### **Hazard Statements**

H316: Causes light skin irritation

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H317: May cause an allergic skin reaction  
H320: Causes eye irritation  
H351: Suspected of causing cancer  
H412: Harmful to aquatic life with long lasting effects

### Precautionary Statements

#### Prevention:

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P261: Avoid breathing dust.  
P264: Wash hands and contaminated areas thoroughly after handling.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P281: Use personal protective equipment as required.

#### Response:

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313: If eye irritation persists: Get medical advice/attention.  
P363: Wash contaminated clothing before reuse.  
P391: Collect spillage.

#### Storage:

P404: Store in a closed container

#### Disposal:

P501: Dispose of contents/container in accordance with local, regional, and federal regulations

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### Chemical characterization

Uncured Rubber Polymers

Component*	CAS #	% By Wt.
Carbon Black, amorphous	1333-86-4	20 - 35
Zinc Oxide	1314-13-2	1 - 5
Di(benzothiazol-2-yl)disulfide	120-78-5	1 - 3

\*The above listed components are OSHA hazardous materials which contribute to this products' GHS Hazard Categorization as prescribed in OSHA's Hazard Communication 29 CFR 1910.1200.



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### 4. FIRST AID MEASURES

#### **Inhalation**

**Symptoms & Effects:** Irritation of the nose and airways, and headache.

**Measures:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing has stopped, begin artificial respiration. If breathing is difficult, administer oxygen. If symptoms develop, seek medical attention.

#### **Skin Contact**

**Symptoms & Effects:** Skin irritation, redness, drying and possible allergic skin reactions.

**Measures:** Wash skin with plenty of water after uses. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

#### **Eye Contact**

**Symptoms & Effects:** Eye irritation, tearing, redness of the eyes.

**Measures:** Rinse eyes with water for at least 15 minutes. Remove contact lenses after the initial few minutes and if easy to do so and resume rinsing. If symptoms develop, seek medical attention.

#### **Ingestion**

**Symptoms & Effects:** Irritation of the nose and airways, and headache.

**Measures:** Seek immediate medical attention. Place individual on their left side and place their head down. Do not leave victim unattended.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, Dry chemical, Alcohol-resistant foam, Water spray

**Unsuitable Extinguishing Media:** Full water jet

**Hazardous Combustion Products:** Nitrogen oxides, Sulfur oxides, Carbon monoxide, Carbon dioxide

**Protective Equipment for Fire-Fighters:** Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

**Precautions for Fire-Fighters:** This product poses a slight fire hazard. Full-face, self-contained breathing apparatus should be worn at all times. Cool storage containers with water, if exposed to fire.

### 6. ACCIDENTAL RELEASE MEASURES

**Protective Equipment:** Recommended to wear NIOSH approved respiratory apparatus, goggles & resistant gloves and discard of gloves that show tears, pinholes, or signs of wear. Wear proper garments to prevent skin exposure, such as long-sleeves and pants.



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**Personal Precautions:** Persons not wearing proper PPE should be excluded from the area of contamination until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources and pay attention to the spreading of gases, especially at ground level.

**Environmental Precautions:** Local authorities should be advised if significant waste cannot be contained.

**Methods & Materials for Clean-Up:** Only personnel equipped with proper respiratory, eye, and skin protection should be permitted in the area. After all visible traces have been removed, thoroughly wet vacuum the area. Transfer to a suitable container for disposal according to proper federal, state, and local regulations.

### 7. HANDLING AND STORAGE

**Handling:** Avoid breathing fumes or dust of this product. Skin and eye PPE should be worn at all times when handling this product. When adequate ventilation is not provided, respiratory PPE should also be used. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking.

**Storage:** Store in a cool, dry, ventilated area, away from heat and ignition sources as well as from incompatible materials (see below).

**Incompatible Materials:** Nitrous acid, Nitrosating agents

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Exposure Limits :

Exposure limits have not been established for this product.

#### Carbon Black, amorphous CAS # 1333-86-4

OSHA	Permissible Exposure Limit (PEL)	3.5 mg/m <sup>3</sup>
ACGIH	Time Weighted Average (TWA)	3 mg/m <sup>3</sup>
NIOSH	Recommended Exposure Limit (REL)	3.5 mg/m <sup>3</sup>

#### Zinc Oxide

#### CAS # 1314-13-2

OSHA	Permissible Exposure Limit (PEL)	5 mg/m <sup>3</sup>
ACGIH	Time Weighted Average (TWA)	2 mg/m <sup>3</sup>
NIOSH	Recommended Exposure Limit (REL)	5 mg/m <sup>3</sup>

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposures below permissible exposure limits. Provide readily accessible eye wash stations and safety showers.

**Occupational Exposure Controls:** Ensure adequate ventilation, especially in confined areas. Consider all potential hazards of this material, applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting PPE. Ensure that eyewash stations and safety



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showers are proximal to the work location. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Protective and Hygiene measures:** Do not inhale dust or vapors. Wash hands before breaks and immediately after handling product. When using, do not eat, drink, or smoke. In case of clothes contamination, remove and wash contaminated clothing before re-use.

**Eye Protection:** Recommended to wear tight fitting, chemical splash goggles when there is potential for the exposure of the eyes to the dust. Have a suitable eye wash station or bottle nearby in case of splashing into the eyes.

**Hand Protection:** Recommended to wear suitable resistant gloves and discard of gloves that show tears, pinholes, or signs of wear. Suitable gloves will be based on product use and the period of use, and may include neoprene, butyl-rubber, nitrile rubber, etc.

**Skin Protection:** Recommended to wear impervious clothing as well as long-sleeved clothing, pants and proper foot covering in order to prevent direct skin contact with the product. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

**Respiratory Protection:** A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Black Strips / Pieces

**Odor:** Rubber

**Odor Threshold:** No data available

**pH:** No data available

**Melting/Freezing point:** No data available

**Boiling Point/ Range:** No data available

**Flash point (Tag closed cup):** No data available

**Evaporation rate:** No data available

**Flammability: Lower Limit:** No data available **Upper Limit:** No data available

**Vapor pressure:** No data available

**Relative vapor density:** No data available

**Density:** 1.12 – 1.15 g/cm<sup>3</sup>

**Solubility in water:** Insoluble

**Partition coefficient (n-octanol/water):** No data available

**Auto-ignition temperature:** No data available



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**Ignition temperature:** No data available  
**Decomposition temperature:** No data available  
**Viscosity (dynamic):** No data available

### 10. STABILITY AND REACTIVITY

**Reactivity:** No decomposition if stored and applied as directed.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Product will not undergo hazardous polymerization or other hazardous reactions if storage and use directions are followed.

**Conditions to Avoid:** Elevated temperatures, Overheating, Incompatible materials (see below)

**Incompatible Materials:** Nitrous acid, Nitrosating agents

**Hazardous decomposition products:** Nitrogen oxides, Sulfur oxides, Carbon monoxide, Carbon dioxide

### 11. TOXICOLOGICAL INFORMATION

**Primary Routes of Exposure:** Skin contact, inhalation

**Symptoms Related to Physical, Chemical and Toxicological Characteristics:** Irritation of the nose and airways, headache, skin irritation, redness, drying, possible allergic skin reactions, eye irritation, redness, and tearing of the eyes.

**Delayed and Immediate Effects & Chronic Effects from Exposure:** This substance may result in skin sensitization or allergic skin reactions with repeated contact. This substance is a potential carcinogen to humans as outlined by OSHA, IARC, ACGIH and the NTP (see below).

#### **Measures of Toxicity:**

Acute toxicities are calculated based on component toxicities  
Mixture: Acute Oral Toxicity: LD<sub>50</sub> Rat: > 5,000 mg/kg  
Acute Dermal Toxicity: LD<sub>50</sub> Rabbit: > 2,000 mg/kg  
Acute Inhalation Toxicity: No sufficient data available

**Carbon Black, amorphous** CAS # 1333-86-4  
Acute Oral Toxicity LD<sub>50</sub> Rat: > 8,000 mg/kg

**Zinc Oxide** CAS # 1314-13-2  
Acute Oral Toxicity LD<sub>50</sub> Mouse: 7,950 mg/kg  
Acute Inhalation Toxicity LC<sub>50</sub> Mouse: 2,500 mg/m<sup>3</sup>



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### Carcinogen Claims:

OSHA: **Yes; 2**, International Agency for Research on Cancer (IARC): **Yes; 2B [Possibly Carcinogenic]**

ACGIH: **None**, National Toxicology Program (NTP) Report on Carcinogens: **None**

## 12. ECOLOGICAL INFORMATION

**Eco-toxicity:** This substance is harmful to aquatic organisms with long lasting effects. It is strongly advised that this substance does not enter the environment. Local authorities should be advised if significant spillages cannot be contained or if material discharges into drains or ground water.

### **Carbon Black, amorphous** CAS # 1333-86-4

Toxicity to Fish	LC <sub>50</sub> > 1,000 mg/l (Zebra Fish; 96 h)
Toxicity to Daphnia	EC <sub>50</sub> > 5,600 mg/l (Water Flea; 24 h)
Toxicity to Algae	EC <sub>50</sub> > 10,000 mg/l (Green Algae; 72 h)

### **Zinc Oxide** CAS # 1314-13-2

Toxicity to Fish	LC <sub>50</sub> – 1.1 mg/l (Rainbow Trout; 96 h)
Toxicity to Daphnia	EC <sub>50</sub> – 0.098 mg/l (Water Flea; 48 h)

**Persistence & Degradability:** No data available

**Bio-accumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** No data available

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State or Local regulations.

Contaminated packaging should be emptied as far as possible before disposal.

## 14. TRANSPORT INFORMATION

### **DOT SHIPPING CLASSIFICATION:**

This product is not regulated as a hazardous material for transport.

### **IMDG (Marine) SHIPPING CLASSIFICATION:**

This product is not regulated as a dangerous good for transport.

### **IATA (Air) SHIPPING CLASSIFICATION:**

This product is not regulated as a dangerous good for transport.

## 15. REGULATORY INFORMATION



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All components of this product conform to the following national inventory requirements. US TSCA, EU EINECS and Canada DSL

### SARA Title III

#### Section 302 – Extremely Hazardous Chemicals

The following ingredients are subject to the supplier notification requirements of Section 302 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 3 *None Listed*

#### Section 313 – Toxic Chemicals

The following ingredients are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 37 *None Listed*

### OTHER FEDERAL REGULATIONS

Components of this product are subject to RCRA Hazardous Waste requirements. Clean Air Act (CAA) Hazardous Air Pollutants requirements and OSHA Process Safety Management (PSM) high hazard requirements.

### CANADIAN REGULATIONS

WHMIS Classification: Same as OSHA GHS Classification

### STATE REGULATIONS

#### California Proposition 65

**WARNING:** This product contains chemicals known to the state of California to cause cancer.

The components of this product may be included on the various state hazardous materials lists noted below.

California Hazardous Substances List  
California Hazardous Substances List/Permissible Exposure List  
California Toxic air contaminants  
Connecticut Permissible Exposure Limits  
Delaware List of Chemicals and RQs  
Hawaii Permissible Exposure Limits  
Idaho Toxic Air Pollutants  
Illinois Toxic Air Contaminants List  
Louisiana Toxic Air Pollutants  
Maine Hazardous Air Pollutants  
Maryland Toxic Air Pollutants for Existing Sources  
Massachusetts Hazardous Substances List  
Michigan Permissible Exposure Limits  
Minnesota Hazardous Substances  
Minnesota Permissible Exposure Limits





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Nebraska Hazardous Air Pollutants  
New Jersey RTK Hazardous Substances List/TCPA Extremely Hazardous Substances List  
New York List of Hazardous Substances  
Ohio Toxic Air Contaminants  
Oklahoma Toxic Air Contaminants  
North Carolina TAP Emissions Rates Requiring a Permit  
Pennsylvania Hazardous Substances List  
Rhode Island Toxic Air Contaminants  
Tennessee Permissible Exposure Limits  
Vermont Hazardous Air Contaminants/Permissible Exposure Limits  
Washington Permissible Exposure Limits for Airborne Contaminants.  
West Virginia Toxic Air Pollutant List  
Wisconsin hazardous Air Contaminants

**Note:** Entries under Section 15 are not intended to be all inclusive of Federal and State laws and regulations. Please consult the appropriate agencies for further clarification of any requirements.

### 16. OTHER INFORMATION

This SDS conforms to the OSHA Hazard Communication Standard 1910.1200 published in the Federal Register March 26, 2012

**MEDICAL EMERGENCIES:**

**Call CHEMTREC 24 hours a  
Day for emergency information**

**FOR ANY OTHER INFORMATION:**

**REMA TIP TOP/NORTH AMERICA, INC  
240 Pegasus Avenue, 2nd Floor  
NORTHVALE, NJ 07647  
201-256-8200**

**NOTICE:** REMA TIP TOP NORTH AMERICA believes that the information contained on this safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive, nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of, applicable laws, regulations, rules or insurance requirements.

**NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, OF MERCHANTABILITY,  
FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.**