



Safety Data Sheet

REMA Tire Repair Materials

Product #: 5561, 5562-125, 5562-18, 5563 5567-26.5

SDS #: RTT-TRM-008

Rev. # 5

Rev. Date: Jan 01, 2024

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Multiple Temperature Rubber (MTR) Cushion Gum & Rope Rubber

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



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Hazard Statements

H316: Causes light skin irritation
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.

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.
P308 + P313: IF exposed or concerned: Get medical advice/attention.
P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment found in supplemental first aid instruction of this SDS (Section 4).
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:

P405: Store locked up

Disposal:

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



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3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization

| Component* | CAS # | % By Wt. |
|--|------------|----------|
| Carbon Black, amorphous | 1333-86-4 | 20 - 35 |
| Zinc Oxide | 1314-13-2 | < 5 |
| Di(benzothiazol-2-yl)disulfide | 120-78-5 | < 2.5 |
| N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamine | 793-24-8 | < 1 |
| Metheneamine | 100-97-0 | < 1 |
| N-(cyclohexylthio)phthalamide | 17796-62-6 | < 1 |

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



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Protective Equipment for Fire-Fighters: Wear full firefighting turn-out 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.

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 vapors 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



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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits :

Carbon Black, amorphous CAS # 1333-86-4

| | | |
|-------|----------------------------------|-----------------------|
| OSHA | Permissible Exposure Limit (PEL) | 3.5 mg/m ³ |
| ACGIH | Time Weighted Average (TWA) | 3.0 mg/m ³ |
| NIOSH | Recommended Exposure Limit (REL) | 3.5 mg/m ³ |

Zinc Oxide CAS # 1314-13-2

| | | |
|-------|------------------------------------|---|
| OSHA | Permissible Exposure Limit (PEL) | 5 mg/m ³ |
| ACGIH | Time Weighted Average (TWA)/(STEL) | 2 mg/m ³ /10 mg/m ³ |
| NIOSH | Recommended Exposure Limit (REL) | 5 mg/m ³ |

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 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. 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.



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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/cm³

Solubility in water: Insoluble

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

Auto-ignition temperature: No data available

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 (NO_x), Sulfur oxides, Carbon monoxide, Carbon dioxide



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11. TOXICOLOGICAL INFORMATION

Primary Routes of Exposure: Inhalation, Skin contact

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: LD₅₀ Rat: > 5,000 mg/kg

Acute Dermal Toxicity: LD₅₀ Rabbit: > 2,000 mg/kg

Acute Inhalation Toxicity: No sufficient data available

Carbon Black, amorphous CAS # 1333-86-4

Acute Oral Toxicity LD₅₀ Rat: > 8,000 mg/kg

Zinc Oxide CAS # 1314-13-2

Acute Oral Toxicity LD₅₀ Mouse: 7,950 mg/kg

Acute Inhalation Toxicity LC₅₀ Mouse: 2,500 mg/m³

Carcinogen Claims: Carbon black

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 LC₅₀ > 1,000 mg/l (Zebra Fish; 96 h)

Toxicity to Daphnia EC₅₀ > 5,600 mg/l (Water Flea; 24 h)

Toxicity to Algae EC₅₀ > 10,000 mg/l (Green Algae; 72 h)

Zinc Oxide CAS # 1314-13-2

Toxicity to Fish LC₅₀ – 1.1 mg/l (Rainbow Trout; 96 h)

Toxicity to Daphnia EC₅₀ – 0.098 mg/l (Water Flea; 48 h)



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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

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 37 *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.



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STATE REGULATIONS

California Proposition 65

Although carbon black respirable particles are listed as a chemical known to the state of California to cause cancer, under normal conditions of use exposure to respirable particles will not occur..

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

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

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.



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16. OTHER INFORMATION

This SDS conforms to OSHA HazCom 2012 and WHMIS 2015.

MEDICAL EMERGENCIES:

Call CHEMTREC 24 hours a
Day for emergency information
800-424-9300

FOR ANY OTHER INFORMATION:

REMA TIP TOP/NORTH AMERICA, INC
1500 Industrial Blvd.
Madison, GA 30650
706-752-4000

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.