



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Remabond Spray Cement

Chemical Family: Polymer & Alkane Hydrocarbon Solution

Product Use: Tire Repair & Retreading Cement

Restrictions on Use: Use as directed by manufacturer

Manufacturer: 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. HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards

Flammable Liquid, Category 2

Health Hazards

Skin Irritation, Category 2

Skin Sensitization, Category 1B

Aspiration Hazard: Category 1

Specific Target Organ Systemic Toxicity, Single Exposure, Category 3, Respiratory tract irritation and narcotic effect

Environmental Hazards

Chronic Aquatic Toxicity, Category 1

GHS Labeling

Pictograms:



Signal Word: Danger!



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

Hazard Statements

H225: Highly flammable liquid and vapor
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H319: Causes serious eye irritation
H317: May cause an allergic skin reaction
H336: May cause drowsiness or dizziness
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233: Keep container tightly closed.
P235: Keep cool.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing vapors.
P264: Wash hands and exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/eye protection/face protection.
P281: Use personal protective equipment as required.

Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P321: Specific treatment found in supplemental First Aid Section of this SDS (Section 4).
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P370 + P378: In case of fire: Use dry chemical, foam, carbon dioxide or water spray for extinction.



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

Storage:

P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with local/regional/national regulations.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization

Polymer & Alkane Hydrocarbon Solution

Component*	CAS #	Weight %
Natural rubber	9006-04-6	5 - 10
n-Heptane	142-82-5	80 - 95
Carbon Black, amorphous	1333-86-4	1 - 5
4-(1-dimethylethyl)-Phenol	60303-68-6	< 1

*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.

4. FIRST AID MEASURES

Inhalation

Symptoms & Effects: Nausea, headache, dizziness, drowsiness, irritation of the nose, throat and lungs

Measures: Immediately move outdoors or to fresh air. If not breathing or if breathing is difficult, provide artificial respiration or oxygen. If irritation occurs, seek medical attention.

Skin Contact

Symptoms & Effects: Slight skin irritation, redness

Measures: Wash contaminated areas with plenty of water after use. Wash contaminated clothing before reuse. If skin irritation persists, seek medical attention.

Eye Contact

Symptoms & Effects: Eye irritation, stinging sensation, tearing, redness

Measures: Immediately flush eyes gently with plenty of water for at least 15 minutes. While washing, remove contact lenses if present and easy to do so and continue rinsing. Rinse beneath eyelids by holding eyelids apart with clean fingers while washing. If eye irritation persists, seek medical attention.

Ingestion

Symptoms & Effects: Stomach or intestinal irritation, nausea, vomiting, nausea, dizziness, drowsiness



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

Measures: Seek immediate medical attention. If awake and alert, rinse mouth and drink plenty of water to help dilute the material. Do NOT induce vomiting as this substance is an aspiration hazard. Do not give liquids to a drowsy or unconscious person. If vomiting occurs, keep heads below hips to prevent aspiration.

5. FIRE FIGHTING MEASURES

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

Unsuitable Extinguishing Media: None identified

Hazardous Combustion Products: 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: Water may be ineffective for extinguishment, unless used under favorable conditions. Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Use water spray to cool fire exposed containers and structures if this can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment: Recommended to wear chemical splash goggles & gloves and discard of gloves that show tears, pinholes, or signs of wear. Wear proper garments to reduce 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.

Environmental Precautions: Do not allow discharge into drains, surface waters, or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained or if material discharges into drains or ground water.

Methods & Materials for Clean-Up: Absorb material with inert materials. Shovel or gather material and place in appropriate container for disposal. Wash spill area thoroughly with plenty of water.

7. HANDLING AND STORAGE

Handling: Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear proper PPE when handling this product including protective gloves, chemical splash goggles, and



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

impervious clothing. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

Storage: Store in a cool, well-ventilated area, away from heat and ignition sources as well as from incompatible materials (see below). Keep container tightly closed and store locked up. Keep away from food, drink, and animal foodstuffs.

Incompatible Materials: Strong oxidizing agents, Strong reducing agents, Inorganic acids, Halogens

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits :

Exposure Limits have not been established for this product.

Proprietary solvent

Confidential

OSHA	Permissible Exposure Limit (PEL)	200 ppm/610 mg/m ³
ACGIH	Time Weighted Average (TWA)/(STEL)	200 ppm/250 ppm
NIOSH	Recommended Exposure Limit (REL)	200 ppm (610 mg/m ³)

Carbon Black, amorphous CAS # 1333-86-4

OSHA	Permissible Exposure Limit (PEL)	3.5 mg/m ³
ACGIH	Time Weighted Average (TWA)	3.5 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 ^{3R}
ACGIH	TWA/STEL	2/10 mg/m ³
NIOSH	Recommended Exposure Limit (REL)	5 mg/m ³

Engineering Controls: Use product in a well-ventilated area.

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: Wash hands before breaks and 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 splash goggles when there is potential for the exposure of the eyes to the product. Have a suitable eye wash station or bottle nearby in case of splashing into the eyes.



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

Hand Protection: Recommended to wear gloves when using this product, and to discard of gloves that show tears, pinholes, or signs of wear.

Skin Protection: Recommended to wear long-sleeved clothing, pants and proper foot covering in order to minimize 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: Although unlikely, a NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be appropriate under certain circumstances 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 or other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black Liquid

Odor: Mild

Odor Threshold: No data available

pH: No data available

Melting/Freezing Point: < -103°F (< -75°C)

Boiling point/range: > 158°F (> 70°C)

Flash point (Tag closed cup): 16°F (- 9°C)

Evaporation rate: > 1 n-Butyl Acetate

Flammability: Lower Limit: 1.1% (V) **Upper Limit:** 6.7% (V)

Vapor pressure: No data available

Relative vapor density: > 3 (Air = 1)

Density: 0.72 g/cm³ (6.04 lb/gal)

Solubility in water: Insoluble

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

Auto-ignition temperature: 433°F (223°C)

Ignition temperature: No data available

Decomposition temperature: No data available

Viscosity (dynamic): No data available

10. STABILITY AND REACTIVITY

Reactivity: May react with oxidizing agents

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Will not react under normal conditions.



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

Conditions to Avoid: Excessive heat, direct sunlight exposure

Incompatible Materials: Strong oxidizing agents, Strong reducing agents, Inorganic acids, Halogens

Hazardous decomposition products: Carbon monoxide, Carbon dioxide

11. TOXICOLOGICAL INFORMATION

Primary Routes of Exposure: Skin contact, Eye contact, Ingestion, Inhalation

Symptoms Related to Physical, Chemical and Toxicological Characteristics: Nausea, irritation of the nose, throat and airways, dizziness, drowsiness, and headache. Causes skin and eye irritation.

Delayed and Immediate Effects & Chronic Effects from Exposure: This material may lead to central nervous system depression and effects such as dizziness and drowsiness.

Measures of Toxicity:

Acute toxicities are calculated based on component toxicities.

Mixture: Acute Oral Toxicity: LD₅₀ Rat: > 4,500 mg/kg

Acute Dermal Toxicity: No sufficient data available

Acute Inhalation Toxicity: No sufficient data available

Proprietary solvent

Acute Oral Toxicity

Acute Dermal Toxicity

Acute Inhalation Toxicity

Confidential

LD₅₀ Rat: > 4,000 mg/kg

LD₅₀ Rabbit: > 2,000 mg/kg

LC₅₀ Rat: >16,000 mg/m³

Carbon Black, amorphous CAS # 1333-86-4

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

Carcinogen Claims: Carbon black (respirable particles) is a known animal carcinogen

OSHA: No, International Agency for Research on Cancer (IARC): Carbon black, Group 2B, possibly carcinogenic to humans, ACGIH: No, National Toxicology Program (NTP) Report on Carcinogens: No

12. ECOLOGICAL INFORMATION

Eco-toxicity: This substance is expected to be toxic 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.

n-Heptane

CAS # 142-82-5

Toxicity to Fish LC₅₀ 0.46 mg/l

Toxicity to Daphnia EC₅₀ 0.06 mg/l (Water flea; 48 h)

Carbon Black, amorphous CAS # 1333-86-4

Toxicity to Fish LC₅₀ > 1,000 mg/l (Zebra Fish; 96 h)



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

Toxicity to Daphnia EC₅₀ > 5,600 mg/l (Water flea; 24 h)
Toxicity to Algae EC₅₀ > 10,000 mg/l (Green Algae; 72 h)

Persistence & Degradability: No data available; Substance is readily biodegradable.

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:

UN NUMBER: UN1133

PROPER SHIPPING NAME: Adhesives, containing a flammable liquid (heptane)

TRANSPORTATION HAZARD CLASS: 3

PACKING GROUP: II

HAZARD LABEL: 3

IMDG (Marine) SHIPPING CLASSIFICATION:

IMDG CODE: 3

UN NUMBER: UN1133

MARINE POLLUTANT: Yes

EmS: F-E, S-D

IMDG PACKING GROUP: II

HAZARD LABEL: 3

Description of the goods

ADHESIVES, CONTAINING A FLAMMABLE LIQUID (heptane)

IATA (Air) SHIPPING CLASSIFICATION:

ICAO/IATA-DGR: 3

UN NUMBER: UN1133

HAZARD LABEL: 3

Description of the goods

Adhesives, containing a flammable liquid (heptane))

15. REGULATORY INFORMATION



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

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 *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.

STATE REGULATIONS

California Proposition 65

This product does not contain materials known to the state of California to cause cancer, birth defects, and other reproductive harm.

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



Safety Data Sheet

REMA Tire Repair Materials

Product #s: 16 RBS 5G, 16 RBS D

SDS #: RTT-TRM-004

Rev. # 6

Rev. Date: Jan 01, 2024

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 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.