



Safety Data Sheet

REMA Tire Repair Materials

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

SDS #: RTT-TRM-010

Rev. # 4

Rev. Date: 2/22/2017

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Remabond Aquas Cement

Chemical Family: Latex Water-Based Solution

Product Use: Environmentally Friendly Cement for Tire Retreading

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. HAZARD IDENTIFICATION

GHS Classifications

Health Hazards

Skin Irritation, Category 2

Eye Irritation, Category 2B

Skin Sensitization, Category 1B

Carcinogenicity, Category 2

Specific Target Organ Systemic Toxicity, Repeated Exposure, Category 2, Respiratory Tract, Central Nervous System, Gastrointestinal Tract [Inhalation, Skin absorption, Ingestion]

GHS-Labeling

Pictograms:



Signal Word: Warning!

Hazard Statements

H315: Causes skin irritation

H320: Causes eye irritation

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H317: May cause an allergic skin reaction
H335: May cause respiratory irritation
H351: Suspected of causing cancer
H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention:

P233: Keep container tightly closed.
P260: Do not breathe vapors.
P264: Wash skin and exposed areas 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.
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.
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.
P309 + P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
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.

Storage:

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up

Disposal:

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

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization

Latex Water-Based Solution

Component*	CAS #	% By Wt.
Natural latex	9006-04-6	20 - 40
Carbon Black, amorphous	1333-86-4	< 3
Ammonium Hydroxide	1336-21-6	< 1



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*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: Respiratory tract irritation, nose, throat, and lung irritation, headache, nausea

Measures: Immediately 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 persist, seek medical attention.

Skin Contact

Symptoms & Effects: Skin irritation, redness, allergic reactions to latex

Measures: Wash skin with plenty of water. Remove contaminated clothing and shoes while washing. Wash contaminated clothing before reuse. If skin irritation or rash occurs, seek medical attention.

Eye Contact

Symptoms & Effects: Eye irritation, stinging, tearing, redness, swelling of the eyes

Measures: Immediately 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. Rinse beneath eyelids by holding eyelids apart with clean fingers while rinsing. If eye irritation persists, seek medical attention.

Ingestion

Symptoms & Effects: Mouth and throat irritation, headache, nausea

Measures: Seek immediate medical attention. Do not induce vomiting unless directed to do so by trained medical personnel. If the victim is drowsy or unconscious, do not give anything by mouth. If victim is conscious, give at least 1-2 glasses of water. 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: None Identified

Hazardous Combustion Products: Ammonia (trace amounts), 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, due to its water-based composition. This product is not expected to burn or support combustion. Full-face, self-contained breathing apparatus should be worn at all times in the event of a fire. Cool storage containers with water, if exposed to fire.



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6. ACCIDENTAL RELEASE MEASURES

Protective Equipment: Recommended to wear splash goggles with side shields as well as resistant gloves, such as polyvinyl alcohol-based 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: Do not allow discharge into drains, surface waters, or sanitary sewer system. Prevent spreading over a wide area by constructing a dike. 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: Eliminate all sources of ignition. Use non-sparking tools for material containment and collection. Ventilate the contaminated area. Contained spilled material with inert, non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite). Transfer to a suitable container for disposal according to proper federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, or solid), all hazard precautions given in this SDS must be observed. Use only non-sparking tools. Do not cut, weld, braze, solder, or expose containers to other ignition sources. Wear proper PPE when handling this product including protective gloves and splash goggles. Avoid prolonged skin contact and breathing of product vapors. Use with adequate ventilation. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

Storage: Store in a well-ventilated area, away from heat and ignition sources. Keep container tightly closed and store locked up. Keep away from food, drink, and animal foodstuffs.

Incompatible Materials: Strong Oxidizing agents, Strong acids

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 ³
ACGIH	Time Weighted Average (TWA)	3.5 mg/m ³
NIOSH	Recommended Exposure Limit (REL)	3.5 mg/m ³



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Ammonium Hydroxide CAS # 1336-21-6
ACGIH Time Weighted Average (TWA) 25 ppm

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 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 liquid, vapor or mist. 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 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 Liquid

Odor: Mild

Odor Threshold: No data available

pH: > 7.0

Melting/Freezing point: No data available

Boiling Point/ Range: 212°F (100°C)



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Flash point (Tag closed cup): > 212°F (> 100°C)
Evaporation rate: 1.04 n-butyl acetate
Flammability: Lower Limit: Not applicable **Upper Limit:** Not applicable
Vapor pressure: No data available
Relative vapor density: No data available
Density: 1.0 g/cm³ (8.3 lbs/gal)
Solubility in water: Soluble
Partition coefficient (n-octanol/water): No data available
Auto-ignition temperature: Not applicable
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

Incompatible Materials: Strong oxidizing agents, Strong acids, Strong bases

Hazardous decomposition products: Carbon monoxide, Carbon dioxide

11. TOXICOLOGICAL INFORMATION

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

Symptoms Related to Physical, Chemical and Toxicological Characteristics: Respiratory tract irritation, nose, throat, and lung irritation, headache, nausea, skin irritation, redness, eye irritation, stinging, tearing, redness, swelling of the eyes, mouth and throat irritation.

Delayed and Immediate Effects & Chronic Effects from Exposure: With repeated exposure, the substance may have effects on the gastrointestinal tract, central nervous system, and respiratory system. This substance may cause allergic skin reactions. This substance is a potential carcinogen to humans as outlined by OSHA and IARC due to the presence of carbon black (see below).

Measures of Toxicity:

Acute toxicities are calculated based on component toxicities



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Mixture: Acute Oral Toxicity: LD₅₀ Rat: > 5,000 mg/kg
Acute Dermal Toxicity: LD₅₀ Rabbit: > 2,000 mg/kg
Acute Inhalation Toxicity: LC₅₀ Rat: > 20 mg/l

Carbon Black, amorphous CAS # 1333-86-4
Acute Oral Toxicity LD₅₀ Rat: > 8,000 mg/kg

Carcinogen Claims:

OSHA: **Yes**; International Agency for Research on Cancer (IARC): **Yes; 2B [Possibly Carcinogenic]**
ACGIH: **No**, National Toxicology Program (NTP) Report on Carcinogens: **No**

12. ECOLOGICAL INFORMATION

Eco-toxicity: This substance is not a suspected ecological hazard; however it is still strongly advised that this substance does not enter the environment.

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)

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:

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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 reportable*

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

This product does not contain chemicals known to the state of California to cause cancer, birth defects, or reproductive harm.

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



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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

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
800-424-9300

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.