



Safety Data Sheet

REMA Tip Top NA

Product #s: 229 000 001

SDS #: RTT-CC-137

Rev. # 2

Rev. Date: 1/09/2023

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: REMA Wear Repair Resin

Chemical Family: Epoxy Resin

Product Use: Coating material

Manufacturer: REMA Tip Top NA
300 Tice Boulevard, Suite 300
Woodcliff Lake, NJ 07677
Phone: 201 256-8200

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 1A

GHS-Labeling

Pictograms:



Signal Word: Danger!

Hazard Statements

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H320: Causes eye irritation

Precautionary Statements

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
P233: Keep container tightly closed.



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P260: Do not breathe vapors.
P264: Wash skin and exposed areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
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.
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.
P362: Take off contaminated clothing and wash before reuse.
P363: Wash contaminated clothing before reuse.
P391: Collect spillage.

Storage:

There are no specific storage requirements for this material.

Disposal:

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

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization

Component*	CAS #	Weight %
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	20 - 30
Dodecyl & Tetradecyl Glycidyl Ethers	68609-97-2	1 - 5
Titanium Dioxide	13463-67-7	1 - 5
Crystalline Silica, quartz	14808-60-7	0.1 - 1

4. FIRST AID MEASURES:

Inhalation

Symptoms & Effects: Nose, throat and lung irritation, respiratory irritation, nausea, and headache

Measures: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms develop or if victim feels unwell, seek medical attention. If breathing is difficult, administer oxygen.

Skin Contact

Symptoms & Effects: Skin irritation, redness, allergic skin reactions, burning sensation, and drying.



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Measures: Immediately wash skin with soap and plenty of water. Remove contaminated clothing and shoes while washing. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse. Discard of clothing which cannot be decontaminated, including leather articles, such as shoes, belts and watchbands.

Eye Contact

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

Measures: Immediately rinse eyes with water for at least 20 minutes. Remove contact lenses after the initial few minutes and if easy to do so and resume rinsing. Rinse beneath the eyelids by holding eyelids apart with clean fingers. If eye irritation persists, consult a physician, preferably an ophthalmologist.

Ingestion

Symptoms & Effects: Stomach or intestinal irritation, nausea, vomiting, throat irritation, dizziness, drowsiness, headache, and weakness.

Measures: If swallowed, seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth. Place individual on their left side with their head down. Do not induce vomiting unless directed to do so by medical personnel. Do not leave victim unattended.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical, Carbon dioxide, Alcohol-resistant foam, Water spray (fine)

Unsuitable Extinguishing Media: Water stream

Hazardous Combustion Products: Hydrocarbons, Phenols, 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: Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Do not use direct water stream as this may spread fire. Move containers away from fire area if possible to do so without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible as it may cause environmental damage.

6. ACCIDENTAL RELEASE MEASURES:

Protective Equipment: Recommended to wear chemical splash 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 (flares, flames



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including pilot lights, electric sparks, etc.) Pay close 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 containment or oil barriers. 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: Contained spilled material with inert, non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth, vermiculite) or fibers made from propylene or polyethylene. Transfer to a suitable container for disposal according to proper federal, state, and local regulations. Remove residual material with soap and hot water.

7. HANDLING AND STORAGE

Handling: Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin and clothing. Wash hands and exposed areas thoroughly after handling. Avoid the use of electric band heaters as failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage: Keep containers away from incompatible materials and excessive heat.

Incompatible Materials: Amines, Acids, Bases, Oxidizing agents

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits :

Crystalline Silica	CAS # 14808-60-7	
OSHA	Permissible Exposure Limit (PEL)	0.05 mg/m ³ / % Si ₂
ACGIH	Threshold Limiting Value (TLV)	0.025 mg/m ³ (respirable)
NIOSH	Recommended Exposure Limit (REL)	0.05 mg/m ³
Titanium Dioxide	CAS # 13463-67-7	
OSHA	Permissible Exposure Limit (PEL)	15 mg/m ³
ACGIH	Time weighted average (TWA)	10 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



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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: 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. Discard of contaminated leather articles.

Eye Protection: Recommended to wear chemical splash goggles. 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: Light Grey Paste

Odor: Mild

Odor Threshold: No data available

pH: No data available

Melting/Freezing point: No data available

Boiling point/range: > 572°F (> 300°C)

Flash point (Tag closed cup): > 284°F (> 140°C)

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: 2.03 g/cm³ (17.0 lbs/gal)

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



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Viscosity (dynamic): paste

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 in isolation. When in contact with aliphatic amines and extensive heat however, product will cause an irreversible polymerization.

Conditions to Avoid: Heat, Flames, Sparks, Ignition sources, Temperatures above 572°F (300°C)

Incompatible Materials: Amines, Acids, Bases, Oxidizing agents

Hazardous decomposition products: Hydrocarbons, Aldehydes, Phenols, Carbon monoxide, Carbon dioxide

11. TOXICOLOGICAL INFORMATION

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

Symptoms Related to Physical, Chemical and Toxicological Characteristics: Skin irritation, redness, eye irritation, tearing of the eyes, stomach or intestinal irritation, respiratory tract irritation, digestive tract irritation, allergy or asthma symptoms, nose, throat and lung irritation, headache, nausea, dizziness, and vomiting.

Delayed and Immediate Effects & Chronic Effects from Exposure: Based on current data, this product is not anticipated to cause any significant adverse effects.

Measures of Toxicity:

Acute toxicities are calculated based on component toxicities

Mixture: Acute Oral Toxicity: LD₅₀ Rat: 10,000 mg/kg

Acute Dermal Toxicity: LD₅₀ Rabbit: >11,000 mg/kg

Acute Inhalation Toxicity: LC₅₀ Rat: No data available

Carcinogen Claims: (quartz)

OSHA: **Yes; 2**, International Agency for Research on Cancer (IARC): **Yes; 1**

ACGIH: **Yes, A2**, National Toxicology Program (NTP) Report on Carcinogens: **Yes (Known Carcinogen)**

12. ECOLOGICAL INFORMATION

Ecotoxicity: It is strongly advised that this substance does not enter the environment.



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Persistence & Degradability: Based on component OECD biodegradation tests, this material cannot be considered as 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:

Not Regulated Material

IMDG (Marine) SHIPPING CLASSIFICATION:

Not Regulated Material

IATA (Air) SHIPPING CLASSIFICATION:

Not Regulated Material

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.

CANADIAN REGULATIONS

Same as OSHA GHS Classification



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STATE REGULATIONS

California Proposition 65

WARNING: This product contains chemicals known to the state of California to cause cancer, birth defects, and other reproductive harm. *None Identified*

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 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 NA.
300 Tice Boulevard, Suite 250
Woodcliff Lake, NJ 07677
201-256-8200

NOTICE: REMA Corrosion Control, Inc. 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, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.