



Safety Data Sheet

REMA TIP TOP

Product: Remafix L, Compound A

SDS #: RTT-IND-027

Rev. # 5

Rev. Date: 5/08/2017

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Remafix L, Compound A

Chemical Family: Bisphenol-A Epoxy Resin

Product Use: Rubber Repair Kit (Two-Component)

Restrictions on Use: Use as directed by manufacturer

Manufacturer: Rema Tip Top - North America
240 Pegasus Avenue, 2nd floor
Northvale, NJ 07647
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 1B

Specific Target Organ Systemic Toxicity, Single Exposure, Category 3, Respiratory Tract [Inhalation, Skin absorption, Ingestion]

Environmental Hazards

Chronic Aquatic Toxicity, Category 2

GHS-Labeling

Pictograms:



Signal Word: Warning!



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Hazard Statements

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H320: Causes eye irritation
H335: May cause respiratory irritation
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention:

P233: Keep container tightly closed.
P261: Avoid breathing dust/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.
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.
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.
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:

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

Disposal:

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

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization

Bisphenol-A Epoxy Resin

Component*	CAS #	% By Wt.
Formaldehyde, rxn. with phenol and chloro-2,3-epoxypropane	9003-36-5	35 - 50
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	25068-38-6	15 - 25



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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: Nose, throat and respiratory tract irritation, coughing

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 persist, seek medical attention.

Skin Contact

Symptoms & Effects: Skin irritation, local skin redness, rashes, allergic skin reactions

Measures: Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes while washing. If skin irritation or rash occurs, seek medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact

Symptoms & Effects: Eye irritation, tearing, eye watering, eye redness

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. Rinse beneath eyelids by holding eyelids apart with clean fingers while rinsing. Seek immediate medical attention.

Ingestion

Symptoms & Effects: Mouth, throat and digestive tract irritation

Measures: Seek immediate medical attention. Do not induce vomiting unless instructed to do so by trained medical personnel. If the victim is drowsy or unconscious, do not give anything by mouth. Place individual on their left side and place their head down. Do not leave victim unattended.

5. FIRE FIGHTING MEASURES

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

Unsuitable Extinguishing Media: Direct water stream (See Precautions)

Hazardous Combustion Products: 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: Do not use direct water stream as this may spread fire. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Dense smoke is emitted when burned without sufficient oxygen. Use water spray to cool fire exposed containers and structures



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if this can be done with minimal risk. Container may rupture from gas generation in a fire situation. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, if 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, 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: Contained spilled material with inert, non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth, polyethylene or polypropylene fibers, vermiculite, etc.). Remove residual material with soap and hot water. Use spark-proof tools and explosion-proof equipment for clean-up. Transfer to a suitable container for disposal according to proper federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling: Wear proper PPE when handling this product including protective gloves, chemical splash goggles, and impervious clothing. Avoid prolonged or repeated skin contact. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material. Emergency showers and eye wash stations should be readily accessible. Do not eat, drink or smoke when handling this product.

Storage: Store in a cool (< 77°F [< 25°C]) 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.

Incompatible Materials: Amines, Acids, Bases, Oxidizing agents

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits :

Exposure limits have not been established for this product.



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Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure 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 with side shields 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 impervious clothing, such as a fuller rubber suit and 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 Paste

Odor: Mild

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): > 302°F (> 150°C)

Evaporation rate: No data available

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



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Vapor pressure: No data available
Relative vapor density: No data available
Density: 1.26 g/cm³ (10.5 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
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 if product is not contacted with amines, namely aliphatic amines, and if storage and use guidelines are followed. Potentially violent decomposition can occur above 662°F (350°C). Decomposition due to high temperatures will result in generation of gases, which may lead to rapid pressure build-up in closed containers. Heating this substance above 300°F (150°C) in the presence of air may cause slow oxidative decomposition.

Conditions to Avoid: Heat, Flames, Sparks, Exposure to temperatures above 572°F (300°C), Prolonged exposure to temperatures above 300°F (150°C)

Incompatible Materials: Amines, Acids, Bases, Oxidizing agents

Hazardous decomposition products: Phenols, Carbon monoxide, Carbon dioxide

11. TOXICOLOGICAL INFORMATION

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

Symptoms Related to Physical, Chemical and Toxicological Characteristics: Nose, throat and respiratory tract irritation, coughing, skin irritation, local skin redness, rashes, allergic skin reactions, eye irritation, tearing, eye watering, eye redness, mouth, throat and digestive tract irritation

Delayed and Immediate Effects & Chronic Effects from Exposure: This product may result in skin sensitization or allergic skin reactions.



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Measures of Toxicity:

Acute toxicities are calculated based on component toxicities

Mixture: Acute Oral Toxicity: LD₅₀ Rat: > 16,500 mg/kg

Acute Dermal Toxicity: LD₅₀ Rabbit: > 1,000 mg/kg

Acute Inhalation Toxicity: No sufficient data available

4,4'-Isopropylidenediphenol- Epichlorohydrin Copolymer

CAS # 25068-38-6

Acute Oral Toxicity

LD₅₀ Rat: 30,000 mg/kg

Acute Dermal Toxicity

LD₅₀ Rabbit: > 1,200 mg/kg

Carcinogen Claims:

OSHA: **None**, International Agency for Research on Cancer (IARC): **None**

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

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.

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:

UN NUMBER: UN3082

PROPER SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

TRANSPORTATION HAZARD CLASS: 9

PACKING GROUP: III

HAZARD LABEL: 9



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IMDG (Marine) SHIPPING CLASSIFICATION:

IMDG CODE: 9

UN NUMBER: UN3082

MARINE POLLUTANT: Yes

EmS: F-A; S-F

IMDG PACKING GROUP: III

HAZARD LABEL: 9

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)

IATA (Air) SHIPPING CLASSIFICATION:

ICAO/IATA-DGR: 9

UN NUMBER: UN3082

HAZARD LABEL: Miscellaneous

Description of the goods

Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

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 *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.



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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 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

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 - NORTH AMERICA
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.