



# Safety Data Sheet

REMA Tip Top

Product #: 5252901

SDS #: RTT-IND-021

Rev. # 5

Rev. Date: 3/28/2017

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Tip Top Remafix PR 100

**Chemical Family:** Polymer in Aromatic Hydrocarbon Solution

**Product Use:** Primer coating

**Restrictions on Use:** Use as directed by manufacturer

**Distributed By:** 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**

Acute Toxicity, Inhalation, Category 4\*

Skin Irritation, Category 2

Eye Irritation, Category 2A

Respiratory Sensitization, Category 1A

Skin Sensitization, Category 1A

Carcinogenicity, Category 2

Reproductive Toxicity, Category 2

Specific Target Organ Systemic Toxicity, Single Exposure, Category 3, Central Nervous System, Respiratory Tract [Inhalation]

Specific Target Organ Systemic Toxicity, Repeated Exposure, Category 2, Central Nervous System, Liver, Kidney [Inhalation, Skin absorption, Ingestion]

Aspiration Hazard, Category 1

#### **Physical Hazards**

Flammable Liquid, Category 3

#### **Environmental Hazards**

Chronic Aquatic Toxicity, Category 2

#### **GHS-Labeling**

#### **Pictograms:**



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**Signal Word: Danger!**

## Hazard Statements

- H226: Flammable liquid and vapor
- H304: May be fatal if swallowed and enters airways
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H332: Harmful if inhaled
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness
- H351: Suspected of causing cancer
- H361: Suspected of damaging fertility or the unborn child
- H373: May cause damage to organs prolonged or repeated exposure
- H411: Toxic 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.
- P210: Keep away from heat/sparks/open flames/hot surface. – 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.
- P260: Do not breathe dust/vapors.
- P263: Avoid contact during pregnancy/while nursing.
- 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.
- 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.
- P281: Use personal protective equipment as required.
- P285: In case of inadequate ventilation, wear respiratory protection.



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### Response:

P301 + P310 + P331: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P303 + P361 + P353: IF ON SKIN (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.  
P314: Get medical advice/attention if you feel unwell.  
P321: Specific treatment found in supplemental First Aid Section 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.  
P342 + P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P362: Take off contaminated clothing and wash before reuse.  
P370 + P378: In case of fire: Use dry chemical, carbon dioxide, or water spray for extinction.  
P391: Collect spillage.

### 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, and federal regulations

\* < 20% of this product consists of components of unknown acute inhalation toxicities

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### Chemical characterization

Polymer in Aromatic Hydrocarbon Solution

Component*	CAS #	% By Wt.
Xylene	1330-20-7	25 - 40
Diphenylmethane di-isocyanate, isomers and homologues	9016-87-9	25 - 40
Naphtha, petroleum	64742-95-6	15 - 25
Ethylbenzene	100-41-4	2.5 - 10
Propylene glycol	25322-69-4	10 - 25

\*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



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## Inhalation

**Symptoms & Effects:** Nose, throat and respiratory tract irritation, nausea, headache, dizziness, drowsiness, shortness of breath, confusion

**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 redness, skin drying, skin cracking, 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 develops, seek medical advice/attention. Wash contaminated clothing before reuse.

## Eye Contact

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

**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, throat and digestive tract irritation, lung damage

**Measures:** Seek immediate medical attention. Do NOT induce vomiting as this substance is an aspiration hazard and may damage the lungs. 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, Water spray

**Unsuitable Extinguishing Media:** Direct water stream (See Precautions)

**Hazardous Combustion Products:** Aldehydes, Hydrocarbons, 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. Use water spray to cool fire exposed containers and structures if this can be done with minimal risk. 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



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**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:** 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. Application of a direct flame to a container of this product can cause an explosion and/or fire. Avoid use of electric band heaters as failures of electric band heaters can lead to fire. Take precautionary measures against static discharge.

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, 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:** Alkalis, Strong acids, Strong oxidizing agents

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Limits :

Exposure limits have not been established for this product.

Xylene	CAS # 1330-20-7	
OSHA	Permissible Exposure Limit (PEL)	100 ppm (435 mg/m <sup>3</sup> )
ACGIH	Time weighted average (TWA)	100 ppm (435 mg/m <sup>3</sup> )
NIOSH	Recommended Exposure Limit (REL)	100 ppm (435 mg/m <sup>3</sup> )



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**Ethylbenzene CAS # 100-41-4**

OSHA	Permissible Exposure Limit (PEL)	100 ppm (435 mg/m <sup>3</sup> )
ACGIH	Threshold Limiting Value (TLV)	20 ppm (87 mg/m <sup>3</sup> )
NIOSH	Recommended Exposure Limit (REL)	100 ppm (435 mg/m <sup>3</sup> )

**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 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:** Brown Liquid

**Odor:** Aromatic

**Odor Threshold:** No data available

**pH:** No data available



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**Melting/Freezing point:** No data available  
**Boiling point/range:** 277°F (136°C)  
**Flash point (Tag closed cup):** 84°F (29°C)  
**Evaporation rate:** < 1.0 n-Butyl Acetate  
**Flammability: Lower Limit:** 1.0% (V) **Upper Limit:** 6.7% (V)  
**Vapor pressure:** No data available  
**Relative vapor density:** > 3 (Air = 1)  
**Density:** 0.95 g/cm<sup>3</sup> (7.9 lbs/gal) @ 68°F (20°C)  
**Solubility in water:** Immiscible; May react with water.  
**Partition coefficient (n-octanol/water):** No data available  
**Auto-ignition temperature:** No data available  
**Ignition temperature:** 810°F (430°C)  
**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.

**Conditions to Avoid:** Heat, Flames, Sparks, Ignition sources

**Incompatible Materials:** Alkalis, Strong acids, Strong oxidizing agents

**Hazardous decomposition products:** Aldehydes, Hydrocarbons, 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, skin irritation, local redness, skin drying, skin cracking, allergic skin reactions, eye irritation, tearing, eye redness, mouth, throat and digestive tract irritation.

**Delayed and Immediate Effects & Chronic Effects from Exposure:** With repeated exposure, the substance may have effects on the central nervous system, kidneys, and liver. This substance is suspected of causing allergic skin reactions or rashes with repeated skin contact. This substance is suspected of causing asthma symptoms or breathing difficulty with repeated inhalation. This substance is suspected of damaging fertility or the unborn child. This substance is suspected of causing central nervous system depression, with effects such as dizziness and drowsiness. This substance is a potential carcinogen to humans as outlined by OSHA, IARC, and ACGIH (see below).

**Measures of Toxicity:**



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Acute toxicities are calculated based on component toxicities  
Mixture: Acute Oral Toxicity: LD<sub>50</sub> Rat: > 4,000 mg/kg  
Acute Dermal Toxicity: LD<sub>50</sub> Rabbit: > 3,000 mg/kg  
Acute Inhalation Toxicity: LC<sub>50</sub> Rat: > 31 mg/l

<b>Xylene</b>	<b>CAS # 1330-20-7</b>
Acute Oral Toxicity	LD <sub>50</sub> Rat: 4,300 mg/kg
Acute Dermal Toxicity	LD <sub>50</sub> Rabbit: > 1,700 mg/kg
Acute Inhalation Toxicity	LC <sub>50</sub> Rat: 5,000 ppmV

<b>Isocyanic Acid, Polymethylenepolyphenylene Ester</b>	<b>CAS # 9016-87-9</b>
Acute Inhalation Toxicity	LC <sub>50</sub> Rat: 0.49 mg/l

<b>Naphtha</b>	<b>CAS # 64742-95-6</b>
Acute Oral Toxicity	LD <sub>50</sub> Rat: > 4,000 mg/kg
Acute Dermal Toxicity	LD <sub>50</sub> Rabbit: > 3,480 mg/kg
Acute Inhalation Toxicity	LC <sub>50</sub> Rat: 3,670 ppmV

<b>Ethylbenzene</b>	<b>CAS # 100-41-4</b>
Acute Dermal Toxicity	LD <sub>50</sub> Rabbit: 15,433 mg/kg

**Carcinogen Claims:**  
OSHA: **Yes; 2**  
International Agency for Research on Cancer (IARC): **Yes; 2B [Possibly Carcinogenic to Humans]**  
ACGIH: **Yes; A3 [Animal Carcinogen, Not likely in Humans]**  
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.

<b>Xylene</b>	<b>CAS # 1330-20-7</b>
Toxicity to Fish	LC <sub>50</sub> – 23.53 mg/l (Fathead Minnow; 96 h)
Toxicity to Daphnia	EC <sub>50</sub> > 100.0 mg/l (Water flea; 24 h)

<b>Ethylbenzene</b>	<b>CAS # 100-41-4</b>
Toxicity to Fish	LC <sub>50</sub> – 4.2 mg/l (Rainbow Trout; 96 h)
	LC <sub>50</sub> – 9.1 mg/l (Fathead Minnow; 96 h)
Toxicity to Daphnia	EC <sub>50</sub> – 1.37 mg/l (Water Flea; 48 h)
Toxicity to Algae	EC <sub>50</sub> – 3.6 mg/l (Green Algae; 96 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:**

UN NUMBER: UN1993

PROPER SHIPPING NAME: Flammable liquid, n.o.s. (Xylenes, Naphtha (petroleum), light aromatic, Ethylbenzene)

TRANSPORTATION HAZARD CLASS: 3

PACKING GROUP: II

HAZARD LABEL: 3

### **IMDG (Marine) SHIPPING CLASSIFICATION:**

IMDG CODE: 3

UN NUMBER: UN1993

MARINE POLLUTANT: Yes

EmS: F-E; S-E

IMDG PACKING GROUP: II

HAZARD LABEL: 3

### **Description of the goods**

FLAMMABLE LIQUID, N.O.S. (Xylenes, Naphtha (petroleum), light aromatic, Ethylbenzene)

### **IATA (Air) SHIPPING CLASSIFICATION:**

ICAO/IATA-DGR: 3

UN NUMBER: UN1993

HAZARD LABEL: 3

### **Description of the goods**

Flammable liquid, n.o.s. (Xylenes, Naphtha (petroleum), light aromatic, Ethylbenzene)

## 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**

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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

Component	CAS #	Weight %	CERCLA RQ
Xylene	1330-20-7	<40	100
Polymeric diphenylmethane diisocyanate	9016-87-9	<40	--
Ethylbenzene	100-41-4	< 10	1,000

## 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

**WARNING:** This product contains chemicals known to the state of California to cause cancer.

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



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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  
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.

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