Safety Data Sheet

REMA TIP TOP

Product #s: PR200-QT, PR200-GAL

SDS #: RTT-IND-011 **Rev. # 6** **Rev. Date: 9/07/2017**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PR-200 Readi Fast Metal Primer

Chemical Family: Ketone & Aromatic Hydrocarbon Solution

Product Use: Primer coating

Restrictions on Use: Use as directed by manufacturer

Distributed By: Rema Tip Top - North America
240 Pegasus., 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

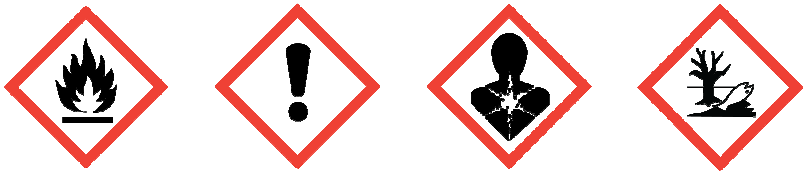
GHS Classifications

Health Hazards
Acute Toxicity, Oral, Category 5*[1]
Acute Toxicity, Inhalation, Category 4*[2]
Skin Irritation, Category 2
Eye Irritation, Category 2A
Germ Cell Mutagenicity, Category 2
Carcinogenicity, Category 2
Reproductive Toxicity, Category 2
Specific Target Organ Systemic Toxicity, Single Exposure, Category 3, Respiratory Tract [Inhalation]
Specific Target Organ Systemic Toxicity, Repeated Exposure, Category 2, Central Nervous System, Blood, Kidneys, Liver, Pancreas, Spleen [Inhalation, Skin absorption, Ingestion]

Physical Hazards
Flammable Liquid, Category 2

Environmental Hazards
Chronic Aquatic Toxicity, Category 2

GHS-Labeling
Pictograms:



Signal Word: Danger!

Hazard Statements
H225: Highly flammable liquid and vapor
H303: Can be harmful if swallowed
H315: Causes skin irritation
H319: Causes serious eye irritation
H332: Harmful if inhaled
H335: May cause respiratory irritation
H351: Suspected of causing cancer
H361: Suspected of damaging fertility or the unborn child
H373: May cause damage to organs through 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 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.
P260: Do not breathe vapors.
P264: Wash skin and exposed areas thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
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.

Response:
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.
P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment found in supplemental First Aid section of this SDS (Section 4).
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P370 + P378: In case of fire: Use alcohol-resistant foam, carbon dioxide, or dry chemical for extinction.
P362: Take off contaminated clothing and wash before reuse.
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

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization
Ketone & Aromatic Hydrocarbon Solution

Component*	CAS #	% By Wt.
Methyl Isobutyl Ketone	108-10-1	70 - 90
Xylene	1330-20-7	5 - 10
Ethylbenzene	100-41-4	1 - 5
Phenol	108-95-2	1 - 3
Toluene	108-88-3	1 - 3

*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, nose and throat irritation, respiratory tract irritation, dizziness, drowsiness, headache, confusion, shortness of breath
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. Seek immediate medical attention.

Skin Contact
Symptoms & Effects: Skin irritation, redness, skin drying
Measures: Wash skin with plenty of water. Remove contaminated clothing and shoes while washing. Wash contaminated clothing before reuse. If skin irritation develops, seek medical attention.

Eye Contact
Symptoms & Effects: Eye irritation, stinging, tearing, redness, eye swelling
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. Seek immediate medical attention.

Ingestion
Symptoms & Effects: Stomach or intestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness
Measures: Seek immediate medical attention. Do NOT induce vomiting unless directed to do so by a physician or medical personnel. If the victim is drowsy or unconscious, do not give anything by mouth. Do not give milk. Place individual on their left side and place their head down. Do not leave victim unattended.

5. FIRE FIGHTING MEASURES

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

Unsuitable Extinguishing Media: Water stream/jet

Hazardous Combustion Products: Hydrogen chloride, Formaldehyde, 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 and the vapors it produces are highly flammable. Vapors are heavier than air and spread along the ground. The vapor/air mixture is explosive, even in empty, un-cleaned containers. Water stream may be ineffective for extinguishment unless used under favorable conditions. This product is volatile and readily gives off flammable vapors which may travel along the ground or be moved by ventilation. Do not allow run-off from firefighting to enter drains or water courses. Use water spray to cool fully closed containers. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

Protective Equipment: Recommended to wear NIOSH approved respiratory apparatus, 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 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 or using 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: Immediately evacuate the spilled area and provide maximum ventilation. Only personnel equipped with proper respiratory, eye, and skin protection should be permitted in the area. Contain spilled material with inert, non-combustible absorbent materials such as sand, earth, diatomaceous earth, or vermiculite. Transfer to a suitable container for disposal according to proper federal, state, and local regulations. Notify the proper response units and agencies for any uncontained releases or spills.

7. HANDLING AND STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers still contain product residues (vapor, liquid, or solid), all hazard precautions given in this SDS must be observed. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

Avoid breathing vapors or mists of this product. Avoid eye and skin contact with this material. Skin and eye PPE should be worn at all times when handling this product. When adequate ventilation is not provided, respiratory PPE should also be used. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Do not eat, drink or smoke when using this product.

Storage: Store in a cool, dry, 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: Oxidizing agents, Strong bases, Strong acids

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits :

Exposure limits have not been established for this product.

Methyl Isobutyl Ketone	**CAS # 108-10-1**	
OSHA	Permissible Exposure Limit (PEL)	100 ppm (410 mg/m^3)
ACGIH	Time Weighted Average (TWA)/(STEL)	20 ppm/75 ppm
NIOSH	Recommended Exposure Limit (REL)	50 ppm (205 mg/m^3)

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

Ethylbenzene	**CAS # 100-41-4**	
OSHA	Permissible Exposure Limit (PEL)	100 ppm (435 mg/m^3)
ACGIH	Time Weighted Average (TWA)	100 ppm/150 ppm
NIOSH	Recommended Exposure Limit (REL)	100 ppm (435 mg/m^3)

Phenol	**CAS # 108-95-2**	
OSHA	Permissible Exposure Limit (PEL)	5 ppm (19 mg/m^3)
ACGIH	Time Weighted Average (TWA)	5 ppm (19 mg/m^3)
NIOSH	Recommended Exposure Limit (REL)	5 ppm (19 mg/m^3)

Toluene	**CAS # 108-88-2**	
OSHA	Permissible Exposure Limit (PEL)	200 ppm (435 mg/m^3)
ACGIH	Time weighted average (TWA)/(STEL)	20 ppm/(75 mg/m^3)
NIOSH	Recommended Exposure Limit (REL)	100 ppm (435 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 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 impervious clothing as well as 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: Grey Liquid
Odor: Aromatic Solvent
Odor Threshold: No data available
pH: No data available
Melting/Freezing point: No data available
Boiling Point/ Range: 243°F (117°C)
Flash point (Tag closed cup): 63°F (17°C)
Evaporation rate: No data available
Flammability: Lower Limit: 1.0% (V) **Upper Limit:** 11.4% (V)
Vapor pressure: 7-9 hPa @ 68°F (20°C)
Relative vapor density: > 3 (Air = 1)
Density: 0.93 g/cm^3 (7.8 lbs/gal) @ 68°F (20°C)
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): 500 mPa*s @ 68°F (20°C)

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, Ignition sources, Incompatible materials (see below)

Incompatible Materials: Oxidizing agents, Strong bases, Strong acids

Hazardous decomposition products: Hydrogen chloride, Formaldehyde, 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: Nausea, nose and throat irritation, respiratory tract irritation, dizziness, drowsiness, headache, confusion, shortness of breath, skin irritation, redness, skin drying, eye irritation, stinging, tearing, redness, eye swelling, stomach or intestinal irritation, vomiting, diarrhea

Delayed and Immediate Effects & Chronic Effects from Exposure: This substance may result in respiratory irritation. With repeated exposure, the substance may have toxic effects on the central nervous system, blood, kidneys, liver, pancreas, and spleen. This substance is suspected to cause mutagenic effects based on studies of laboratory animals alone. This substance is suspected of harming fertility or the unborn child based on studies of laboratory animals alone. This substance is a suspected carcinogen as outlined by OSHA and the IARC.

Measures of Toxicity:
Acute toxicities are calculated based on component toxicities
Mixture: Acute Oral Toxicity: LD_{50} Rat: > 2,400 mg/kg
Acute Dermal Toxicity: LD_{50} Rabbit: > 22,000 mg/kg
Acute Inhalation Toxicity: No sufficient data available

Methyl Isobutyl Ketone	**CAS # 108-10-1**
Acute Oral Toxicity	LD_{50} Rat: 2,080 mg/kg
Acute Dermal Toxicity	LD_{50} Rabbit: > 26,000 mg/kg

Xylene	**CAS # 1330-20-7**
Acute Oral Toxicity	LD_{50} Rat: 4,300 mg/kg
Acute Dermal Toxicity	LD_{50} Rabbit: > 1,700 mg/kg
Acute Inhalation Toxicity	LC_{50} Rat: 5,000 ppm

Ethylbenzene	**CAS # 100-41-4**
Acute Dermal Toxicity	LD_{50} Rabbit: 15,433 mg/kg

Phenol	**CAS # 108-95-2**
Acute Oral Toxicity	LD_{50} Rat: 317 mg/kg
Acute Dermal Toxicity	LD_{50} Rabbit: 630 mg/kg
Acute Inhalation Toxicity	LC_{50} Rat: 900 mg/m^3 (8 h)

Toluene	**CAS # 108-88-3**
Acute Oral Toxicity	LD_{50} Rat: > 5,580 mg/kg
Acute Inhalation Toxicity	LC_{50} Rat: 12,500 mg/m^3 (6 h)

Carcinogen Claims:
OSHA: **Yes; 2,** International Agency for Research on Cancer (IARC): **Yes; 2B [Possibly Carcinogenic to Humans],** ACGIH: **No; A3 [Animal Carcinogen, not likely in Humans]**
National Toxicology Program (NTP) Report on Carcinogens: **None**

12. ECOLOGICAL INFORMATION

Eco-toxicity: This substance is toxic to aquatic life with long lasting effects. It is still 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.

Xylene	**CAS # 1330-20-7**
Toxicity to Fish	LC_{50} – 19.2 mg/l (Fathead Minnow; 96 h)
Toxicity to Daphnia	EC_{50} – 1.37 mg/l (Water flea; 48 h)

Ethylbenzene	**CAS # 100-41-4**
Toxicity to Fish	LC_{50} – 4.2 mg/l (Rainbow Trout; 96 h)
Toxicity to Fish	LC_{50} – 80 mg/l (Bluegill; 96 h)
Toxicity to Daphnia	EC_{50} – 2.9 mg/l (Water Flea; 48 h)

Phenol	**CAS # 108-95-2**
Toxicity to Fish	LC_{50} – 14 mg/l (Golden Orfe; 48 h)
Toxicity to Fish	LC_{50} – 36.1 mg/l (Goldfish; 96 h)
Toxicity to Daphnia	EC_{50} – 12 mg/l (Water Flea; 24 h)
Toxicity to Algae	EC_{50} – 370 mg/l (Fresh Water Algae; 96 h)

Toluene	**CAS # 108-88-3**
Toxicity to Fish	LC_{50} – 7.63 mg/l (Rainbow Trout; 96 h)
Toxicity to Fish	LC_{50} – 8.04 mg/l (Fathead Minnow; 96 h)
Toxicity to Fish	LC_{50} – 74 mg/l (Bluegill; 96 h)
Toxicity to Daphnia	EC_{50} – 8.0 mg/l (Water Flea; 48 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:
UN NUMBER: UN1263
PROPER SHIPPING NAME: Paint
TRANSPORTATION HAZARD CLASS: 3
PACKING GROUP: II
HAZARD LABEL: 3

IMDG (Marine) SHIPPING CLASSIFICATION:
IMDG CODE: 3
UN NUMBER: UN11263
MARINE POLLUTANT: No
EmS: F-E; S-E
IMDG PACKING GROUP: II
HAZARD LABEL: 3
Description of the goods
PAINT

IATA (Air) SHIPPING CLASSIFICATION:
ICAO/IATA-DGR: 3
UN NUMBER: UN1263
HAZARD LABEL: 3
Description of the goods
Paint

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

Component	CAS #	Weight %	CERCLA RQ
Phenol	108-95-2	1 - 3	1,000

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
Methyl Isobutyl Ketone	108-10-1	70 – 85	5,000
Xylene	1330-20-7	5 – 10	100
Ethylbenzene	100-41-4	1 – 5	1,000
Phenol	108-95-2	< 2	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

Same as OSHA GHS Classification

STATE REGULATIONS

California Proposition 65
WARNING! This product contains chemicals known to the state of California to cause cancer.

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.

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

FOR ANY OTHER INFORMATION:

REMA TIP TOP - NORTH AMERICA
240 Pegasus., 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.