



# Material Safety Data Sheet

REMA TIP TOP

Product #'s: PC-4

MSDS #: RTT-IND-015

Rev. # 2

Rev. Date: 1/15/2011

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Plastic Cement (Flammable version)

Product Use: Adhesive

Manufacturer: REMA TIP TOP/NO. AMERICA, 119 Rockland Avenue, Northvale, NJ 07647

24-Hour Emergency Phone Number: North America: 800-424-9300 (CHEMTREC)  
International: 703-527-3887 (CHEMTREC) Collect Calls Accepted

## 2. PRODUCT INGREDIENTS

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER:</u>	<u>% RANGE:</u>	<u>OSHA PEL:</u>
Methyl ethyl ketone	78-93-3	60-90	200 ppm TWA; 590 mg/m3 TWA

### Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Ketones, liquid, n.o.s..

The balance of ingredients not rated as hazardous as defined in 29 CFR 1910.1200.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

This product is regulated under the Canadian Controlled Products Regulations.

## 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS:

This product is a yellowish liquid with a ketone-like odor. It is a highly flammable liquid. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. This product is harmful by inhalation, when in contact with the skin, eyes and if it is swallowed. Aspiration hazard. Lung damage may occur if aspirated into the lungs and may be fatal.

**EYE:** This product may cause irritation to the eyes.

**SKIN:** This product may cause irritation to the skin.

**INGESTION:** Harmful if swallowed. Ingestion of this product is not an expected exposure route in industrial or commercial uses. Ingestion can cause nausea, vomiting, difficulty breathing, irregular heartbeat, headache, dizziness, blood disorders, and coma. Aspiration Hazard. If aspirated (liquid enters the lung), the product may be rapidly absorbed through the lungs.

**INHALATION:** This product may be harmful by inhalation. Symptom of exposure may include: irritation, nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, loss of coordination, and unconsciousness.



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## 4. FIRST AID

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

**SKIN:** For skin contact flush with large amounts of water while removing contaminated clothing. Wash affected area with mild soap and water. If irritation persists, get medical attention. Wash contaminated clothing before reuse. Contaminated leather articles, including shoes, that cannot be decontaminated should be discarded.

**INGESTION:** Do not induce vomiting. Call a physician immediately. Aspiration hazard.

**INHALATION:** If inhaled, immediately remove the affected person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.

**NOTE TO PHYSICIAN:** Provide general supportive measures and treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

**Flash Point:** -4°C (24.8°F)

**Upper Flammable Limit (UFL):** 8%

**Auto Ignition:** 514°C (957°F)

**Method Used:** Not Available

**Lower Flammable Limit (LFL):** 1%

**Flammability Classification:** Class IB

**HAZARDOUS COMBUSTION PRODUCTS:** Upon decomposition, this product emits carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

**EXTINGUISHING MEDIA:** Water fog/ spray, carbon dioxide, dry chemical, and alcohol-resistant foam. Water fog, applied gently may be used as a blanket for fire extinguishment.

**FIRE FIGHTING INSTRUCTIONS:** Highly Flammable liquid. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.

**PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:** Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products.

## 6. ACCIDENTAL RELEASE MEASURES

**CONTAINMENT PROCEDURES:** Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Handling equipment must be grounded to prevent sparking. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

**CLEAN-UP PROCEDURES:** Eliminate ignition sources including sources of electrical, static or frictional sparks. Ventilate the contaminated area. Absorb spill with inert material. Shovel material into properly labeled closed metal containers for disposal. Place in non-leaking containers for immediate disposal. Flush area with water to remove trace residue. Do not allow the spilled product to enter public drainage system or open watercourses.



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**EVACUATION PROCEDURES:** Persons not wearing appropriate protective equipment should be excluded from area of spill until clean up has been completed.

**SPECIAL PROCEDURES:** Follow all Local, State, Federal and Provincial regulations for disposal.

## 7. HANDLING & STORAGE

**HANDLING:** Very large quantities of these packages, if mishandled, may accumulate enough liquid or vapor to cause a flammable atmosphere. Vapors are heavier than air and may spread along the floor.

Keep liquid and vapor away from heat, sparks and flames. Surfaces that are sufficiently hot may ignite liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone. Vapors may accumulate and travel to ignition sources distant from the handling site; flash fire can result. Keep containers closed when not in use. Use with adequate ventilation.

Containers, even those that have been emptied, can contain explosive vapors. DO NOT cut, drill, grind, weld or perform similar operations on or near containers. DO NOT pressurize drum containers to empty them.

Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment.

Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Air-dry contaminated clothing in a well ventilated area before laundering.

**STORAGE:** Keep packaged in original, labeled containers until use. Store in a cool, dry, well-ventilated area. Store this product in airtight containers away from sources of heat and light. Ground all equipment to prevent accumulation of static charge. Store away from incompatible materials. Do not remove or deface label. Do not reuse container without recycling or reconditioning in accordance with any Federal, Provincial, State or local laws. Do not use cutting or welding torches, open flames, or electric arcs on empty or full containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYE/FACE PROTECTION:** Wear safety glasses. Chemical goggles and/ or face shields should be worn, when splashing is a possibility. Contact lenses should not be exposed. If vapor exposure causes eye discomfort, use a full-face respirator.

**SKIN PROTECTION:** Use impervious gloves. Use of impervious apron and boots are recommended.

**RESPIRATORY PROTECTION:** If recommended exposure limits are exceeded, a NIOSH-approved, continuous flow supplied air-respirator, hood or helmet is acceptable. A NIOSH approved self-contained positive pressure breathing apparatus, with full-face piece, is required for spills and/ or emergencies.



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## EXPOSURE GUIDELINE(s):

### Component Exposure Limits

REMA TIP/TOP USA recommends that its customers minimize employee exposure. REMA therefore suggests that its customers consider adopting the lower of the current OSHA PEL or the ACGIH TLV's for the purpose of evaluating employee exposures. The TLV's recommended by the ACGIH have been updated on a continuing basis.

### Methyl ethyl ketone (78-93-3)

ACGIH:	200 ppm TWA 300 ppm STEL
OSHA:	200 ppm TWA; 590 mg/m <sup>3</sup> TWA
NIOSH:	200 ppm TWA; 590 mg/m <sup>3</sup> TWA 300 ppm STEL; 885 mg/m <sup>3</sup> STEL

### Component Exposure Limits - Canada

The following Provincial Exposure Limits apply for this product's components.

### Methyl ethyl ketone (78-93-3)

Alberta:	200 ppm TWA; 590 mg/m <sup>3</sup> TWA 300 ppm STEL; 895 mg/m <sup>3</sup> STEL
British Columbia:	50 ppm TWA 100 ppm STEL
Manitoba:	200 ppm TWA; 590 mg/m <sup>3</sup> TWA 300 ppm STEL; 885 mg/m <sup>3</sup> STEL
New Brunswick:	200 ppm TWA; 590 mg/m <sup>3</sup> TWA 300 ppm STEL; 885 mg/m <sup>3</sup> STEL
NW Territories:	200 ppm TWA; 590 mg/m <sup>3</sup> TWA 300 ppm STEL; 885 mg/m <sup>3</sup> STEL
Nova Scotia:	200 ppm TWA 300 ppm STEL
Nunavut:	200 ppm TWA; 590 mg/m <sup>3</sup> TWA 300 ppm STEL; 885 mg/m <sup>3</sup> STEL
Ontario:	200 ppm TWAEV; 590 mg/m <sup>3</sup> TWAEV 300 ppm STEV; 885 mg/m <sup>3</sup> STEV
Quebec:	50 ppm TWAEV; 150 mg/m <sup>3</sup> TWAEV 100 ppm STEV; 300 mg/m <sup>3</sup> STEV
Saskatchewan:	590 mg/m <sup>3</sup> TWA; 200 ppm TWA 885 mg/m <sup>3</sup> STEL; 300 ppm STEL
Yukon:	200 ppm TWA; 590 mg/m <sup>3</sup> TWA 250 ppm STEL; 740 mg/m <sup>3</sup> STEL



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## 9. PHYSICAL & CHEMICAL PROPERTIES

**APPEARANCE:** Yellowish liquid

**ODOR:** Ketone-like                      **ODOR THRESHOLD:** Not Available

**BOILING POINT:** 80°C (176°F)

**SOLUBILITY IN WATER:** Not Available

**SPECIFIC GRAVITY:** Not Available

**VAPOR PRESSURE:** 101 mbar @ 20°C (68°F)

**% VOLATILE:** <90%

## 10. STABILITY & REACTIVITY

**INCOMPATIBILITY WITH OTHER MATERIALS:** Materials to avoid are strong oxidizers. Avoid open flames and welding arcs.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**DECOMPOSITION PRODUCTS:** Upon decomposition, this product emits carbon monoxide, carbon dioxide, and/or low molecular weight hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

This product is harmful by inhalation, when in contact with the skin, eyes and if it is swallowed. Aspiration hazard. Lung damage may occur if aspirated into the lungs and may be fatal.

### CHRONIC TOXICITY

Repeated exposure may cause skin dryness or cracking.

### CARCINOGENICITY

No information available for the product.

### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

## 12. ECOLOGICAL INFORMATION

No information available for the product.



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## Component Analysis - Ecotoxicity - Aquatic Toxicity

### Methyl ethyl ketone (78-93-3)

#### Test & Species

96 Hr LC50 fathead minnow	3220 mg/L
96 Hr LC50 bluegill	1690 mg/L
5 min EC50 Photobacterium phosphoreum	3426 mg/L
30 min EC50 Photobacterium phosphoreum	3403 mg/L
48 Hr EC50 water flea	520 mg/L

#### Conditions

flow-through

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL:** Waste must be handled in accordance with all federal, state, provincial, and local regulations.

### UNUSED & UNCONTAMINATED PRODUCT:

#### Component Waste Numbers

### Methyl ethyl ketone (78-93-3)

RCRA: waste number U159 (Ignitable waste, Toxic waste)  
200.0 mg/L regulatory level

If discarded, this product is considered a RCRA ignitable waste, D001.

## 14. TRANSPORT INFORMATION

### US DOT Information

**Shipping Name:** Adhesives

**UN/NA #:** UN1133 **Hazard Class:** 3 **Packing Group:** II

**Required Label(s):** FLAMMABLE Liquid

**Additional Info.:** PLACARD (WHEN REQUIRED): FLAMMABLE LIQUID, 3

EXCEPTIONS: DOT Paragraphs 173.150 & 173.173.

ALTERNATE SHIPPING ARRANGEMENTS: Based on package or shipping container size, this product may be shipped as a, "Limited Quantity".

### TDG Information

**Shipping Name:** Adhesives

**UN/NA #:** UN1133 **Hazard Class:** 3 **Packing Group:** II

**Required Label(s):** FLAMMABLE Liquid

### IMDG Information

**Additional Info.:** F-E, S-D

### IATA Information

**Additional Info.:** 3



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## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### SARA 313 INFORMATION:

##### Component Analysis

None of this products components are listed under SARA Section 313 (40 CFR 372.65).

#### SARA HAZARD CATEGORY:

Acute Health: Yes Chronic Health: No Fire: Yes Pressure: No Reactive: No

### COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA):

#### Component Analysis

This material contains one or more of the following chemicals required to be identified under CERCLA (40 CFR 302.4).

#### Methyl ethyl ketone (78-93-3)

CERCLA:

5000 lb final RQ; 2270 kg final RQ

### TOXIC SUBSTANCES CONTROL ACT (TSCA): All components are on the U.S. EPA TSCA Inventory List.

#### Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Methyl ethyl ketone	78-93-3	Yes	DSL	EINECS

### STATE RIGHT-TO-KNOW:

#### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Methyl ethyl ketone	78-93-3	Yes	Yes	Yes	Yes	Yes	Yes

This product is not a consumer product. This product may not be legally authorized for consumer use or sale in a state that has adopted the OTC Model Rule, or in California pursuant to the Consumer Products Regulation of the California Air Resources Board, or in states with similar laws. Please check federal, state and local air control laws for guidance.

### CANADIAN REGULATIONS

This product is regulated under the Canadian Controlled Products Regulations.

### WHMIS INFORMATION:

WHMIS Classification: B2, D2B

#### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Methyl ethyl ketone	78-93-3	1 %



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## EUROPE:

### Component Analysis

Component (CAS#)

Methyl ethyl ketone (78-93-3)

EC #

201-159-0

## 16. OTHER INFORMATION

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

NFPA Ratings: Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### MEDICAL EMERGENCIES:

Call CHEMTREC 24 hours a  
Day for emergency information  
800-424-9300

### FOR ANY OTHER INFORMATION:

REMA TIP TOP/NO. AMERICA  
119 Rockland Ave.  
NORTHVALE, NJ 07647  
201-768-8100

**NOTICE:** REMA TIP/TOP USA believes that the information contained on this material 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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