



Material Safety Data Sheet

REMA TIP TOP

Product #'s: 5254088, 5254095, 5254105,
& 5254143

MSDS #: RTT-IND-036

Rev. # 2

Rev. Date: 1/15/2011

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Tip Top Cement BC 3004

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>
Ethylacetate	141-78-6	15-40	400 ppm TWA; 1400 mg/m ³ TWA
Cyclohexane	110-82-7	15-40	300 ppm TWA; 1050 mg/m ³ TWA

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

This product is regulated under the Canadian Controlled Products Regulations.

Remainder of components are either non-hazardous or below regulatory requirements.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

This product is a blue liquid with a fruity odor. This product is a flammable liquid and vapor. Vapors may cause flash fire. It can cause eye, skin, respiratory and digestive system irritation. A component is an aspiration hazard. Symptoms of exposure may include central nervous system depression. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EYE: This product may cause irritation to the eyes. Symptoms may include stinging, tearing, and redness.

SKIN: This product is irritating to the skin. Prolonged and/or repeated skin contact with this product may cause irritation, defatting of skin and dermatitis.

INGESTION: Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May produce central nervous system depression. If aspirated (liquid enters the lung), the product may be rapidly absorbed through the lungs and can result in chemical pneumonitis and pulmonary edema/hemorrhage.

INHALATION: This product may be harmful by inhalation. Symptoms may include irritation, nausea, vomiting, headache, difficulty breathing, drowsiness, dizziness, loss of coordination, kidney damage, liver damage, unconsciousness, and coma.



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4. FIRST AID

EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. If irritation persists get medical attention.

SKIN: For skin contact flush with large amounts of water while removing contaminated clothing. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

INGESTION: Do not induce vomiting. Call a physician immediately.

INHALATION: Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration. Seek medical attention.

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

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: -17°C (62.6°F)

Upper Flammable Limit (UFL): Not Available

Auto Ignition: >473°F (>245°C)

Method Used: Not Available

Lower Flammable Limit (LFL): 1.2%

Flammability Classification: Class IB

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

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical, water fog or fine spray.

FIRE FIGHTING INSTRUCTIONS: DANGER, FLAMMABLE! Clear fire area of unprotected personnel and isolate. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back. Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters 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. Use non-sparking tools. 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 water courses.



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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. Notify the proper authorities if entry to the environment occurs.

7. HANDLING & STORAGE

HANDLING: 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 air-tight 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. Wash contaminated clothing before reuse.

RESPIRATORY PROTECTION: If recommended exposure limits are exceeded, a NIOSH/MSHA-approved, continuous flow supplied air-respirator, hood or helmet is acceptable.



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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.

Cyclohexane (110-82-7)

ACGIH: 100 ppm TWA
OSHA: 300 ppm TWA; 1050 mg/m³ TWA
NIOSH: 300 ppm TWA; 1050 mg/m³ TWA

Ethylacetate (141-78-6)

ACGIH: 400 ppm TWA
OSHA: 400 ppm TWA; 1400 mg/m³ TWA
NIOSH: 400 ppm TWA; 1400 mg/m³ TWA

Component Exposure Limits - Canada

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

Cyclohexane (110-82-7)

Alberta: 300 ppm TWA; 1030 mg/m³ TWA
British Columbia: 100 ppm TWA
Manitoba: 300 ppm TWA; 1050 mg/m³ TWA
New Brunswick: 300 ppm TWA; 1030 mg/m³ TWA
NW Territories: 300 ppm TWA; 1030 mg/m³ TWA
375 ppm STEL; 1290 mg/m³ STEL
Nova Scotia: 100 ppm TWA
Nunavut: 300 ppm TWA; 1030 mg/m³ TWA
375 ppm STEL; 1290 mg/m³ STEL
Ontario: 100 ppm TWAEV
Quebec: 300 ppm TWAEV; 1030 mg/m³ TWAEV
Saskatchewan: 1030 mg/m³ TWA; 300 ppm TWA
1290 mg/m³ STEL; 375 ppm STEL
Yukon: 300 ppm TWA; 1050 mg/m³ TWA
375 ppm STEL; 1300 mg/m³ STEL

Ethylacetate (141-78-6)

Alberta: 400 ppm TWA; 1440 mg/m³ TWA
British Columbia: 150 ppm TWA
Manitoba: 400 ppm TWA; 1400 mg/m³ TWA
New Brunswick: 400 ppm TWA; 1440 mg/m³ TWA
NW Territories: 400 ppm TWA; 1441 mg/m³ TWA
500 ppm STEL; 1801 mg/m³ STEL
Nova Scotia: 400 ppm TWA
Nunavut: 400 ppm TWA; 1441 mg/m³ TWA
500 ppm STEL; 1801 mg/m³ STEL
Ontario: 400 ppm TWAEV; 1440 mg/m³ TWAEV



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Rev. Date: 1/15/2011

Quebec: 400 ppm TWAEV; 1400 mg/m³ TWAEV
Saskatchewan: 1440 mg/m³ TWA; 400 ppm TWA
1800 mg/m³ STEL; 500 ppm STEL
Yukon: 400 ppm TWA; 1400 mg/m³ TWA
400 ppm STEL; 1400 mg/m³ STEL

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Blue liquid

ODOR: Fruity **ODOR THRESHOLD:** Not Available

BOILING POINT: ~76°C (169°F)

SOLUBILITY IN WATER: Immiscible @ 20°C (68°F)

SPECIFIC GRAVITY: 0.96 g/ml @ 20°C (68°F)

VAPOR PRESSURE: 104 mbar @ 20°C (68°F)

% VOLATILE: <80%

10. STABILITY & REACTIVITY

INCOMPATIBILITY WITH OTHER MATERIALS: Materials to avoid are strong alkalis and oxidizers.

HAZARDOUS POLYMERIZATION: Will not occur.

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

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Through inhalation, ingestion or passage of the material through the skin the following symptoms may occur: stomach or intestinal upset (nausea, vomiting, diarrhea); irritation (nose, throat, airway); central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness); temporary changes in mood and behavior; loss of appetite; loss of coordination; irregular heartbeat; narcosis (dazed or sluggish feeling).

CHRONIC TOXICITY

Chronic poisoning has been described as producing secondary anemia, leucocytosis and cloudy swelling, and fatty degeneration of the viscera. May cause peripheral neuropathy and central nervous system damage.



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CARCINOGENICITY

No carcinogenicity data available for this product.

Component Carcinogenicity

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

12. ECOLOGICAL INFORMATION

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Cyclohexane (110-82-7)

Test & Species

96 Hr LC50 Pimephales promelas	4.53 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	34.72 mg/L
96 Hr LC50 Poecilia reticulata	48.0 mg/L
72 Hr EC50 Scenedesmus subspicatus	>500 mg/L
5 min EC50 Photobacterium phosphoreum	85.5 mg/L
10 min EC50 Photobacterium phosphoreum	93 mg/L
48 Hr EC50 water flea	400.0 mg/L

Conditions

Ethylacetate (141-78-6)

Test & Species

96 Hr LC50 Pimephales promelas	230 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	484 mg/L [flow-through]
48 Hr EC50 Scenedesmus subspicatus	3300 mg/L
5 min EC50 Photobacterium phosphoreum	1180 mg/L
15 min EC50 Photobacterium phosphoreum	5870 mg/L
2 Hr EC50 Pseudomonas fluorescens	7400 mg/L
15 min EC50 Pseudomonas fluorescens	1500 mg/L
48 Hr EC50 Daphnia magna	717 mg/L

Conditions

13. DISPOSAL CONSIDERATIONS

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



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UNUSED & UNCONTAMINATED PRODUCT:

Component Waste Numbers

Cyclohexane (110-82-7)

RCRA: waste number U056 (Ignitable waste)

Ethylacetate (141-78-6)

RCRA: waste number U112 (Ignitable waste)

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, & 173.242.

ALTERNATE SHIPPING ARRANGEMENTS: Based on package or shipping container size, this product may be shipped as a, "Limited Quantity", and reclassified as, "ORM-D" Material.

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

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

SARA 313 INFORMATION:

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 313 (40 CFR 372.65).

Cyclohexane (110-82-7)

SARA 313: 1.0 % de minimis concentration



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SARA HAZARD CATEGORY:

Acute Health: Yes Chronic Health: Yes 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).

Cyclohexane (110-82-7)

CERCLA: 1000 lb final RQ; 454 kg final RQ

Ethylacetate (141-78-6)

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
Cyclohexane	110-82-7	Yes	DSL	EINECS
Ethylacetate	141-78-6	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
Cyclohexane	110-82-7	Yes	Yes	Yes	Yes	Yes	Yes
Ethylacetate	141-78-6	Yes	Yes	Yes	Yes	Yes	Yes

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
Cyclohexane	110-82-7	1 %
Ethylacetate	141-78-6	1 %



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EUROPE:

Component Analysis

Component (CAS#)

Cyclohexane (110-82-7)

Ethylacetate (141-78-6)

EC

203-806-2

205-500-4

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

NFPA Ratings: Health: 1 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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