



Material Safety Data Sheet

REMA TIP TOP

Product #'s: HSH-T-Cem

MSDS #: RTT-IND-044

Rev. # 2

Rev. Date: 1/15/2011

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: HSH-T (EPDM) Cement

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>
Heptane	142-85-5	50 - 75	500 ppm TWA
Toluene	108-88-3	22 - 40	200 ppm 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:

The product is a white, creamy viscous liquid with a rubber solvent odor. **EXTREMELY FLAMMABLE** liquid. This product is harmful by inhalation, when in contact with the skin, eyes and if it is swallowed. Keep this product from heat, sparks, or open flame. Overexposure may cause damage to the liver, lungs, and kidneys.

EYE: This product may cause irritation to the eyes. Vapors may also produce eye irritation. Contact may cause stinging, watering, and redness.

SKIN: This product may cause irritation to the skin. Contact may cause redness, itching, burning, and skin damage. Prolonged or repeated contact with this product may dry and/or defat the skin. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

INGESTION: Ingestion can cause irritation of the digestive tract, nausea, vomiting, and signs of nervous system depression. If aspirated (liquid enters the lung), the product may be rapidly absorbed through the lungs and can result in chemical pneumonitis. (DO NOT INDUCE VOMITING.)

INHALATION: This product may be harmful by inhalation. Vapors of this product may cause irritation of the nose, throat, and respiratory tract.



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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.

INGESTION: Aspiration hazard: If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Do not induce vomiting. Call a physician immediately.

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: 25 °F

Upper Flammable Limit (UFL): 7 (% Volume in Air)

Flammability Classification: Class 1B

Method Used: SFCC

Lower Flammable Limit (LFL): 1 (% Volume in Air)

HAZARDOUS COMBUSTION PRODUCTS: Combustion products may include carbon monoxide and unidentified organic compounds.

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide, water fog.

FIRE FIGHTING INSTRUCTIONS: DANGER, EXTREMELY FLAMMABLE! Clear fire area of unprotected personnel and isolate.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

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 water courses.

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



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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-approved, continuous flow supplied air-respirator, hood or helmet is acceptable.



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EXPOSURE GUIDELINE(s): Component Exposure Limits

REMA TIP TOP / NORTH AMERICA 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.

Heptane (142-82-5)

ACGIH: 400 ppm TWA
OSHA: 500 ppm TWA; 2000 mg/m³ TWA
NIOSH: 85 ppm TWA; 350 mg/m³ TWA

Toluene (108-88-3)

ACGIH: 3.5 mg/m³ TWA
OSHA: 200 ppm TWA
NIOSH: 100 ppm TWA; 375 mg/m³ TWA

Component Exposure Limits - Canada

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

Heptane (142-82-5)

Alberta:	400 ppm TWA; 1640 mg/m ³ TWA 500 ppm STEL; 2050 mg/m ³ STEL
British Columbia:	400 ppm TWA 500 ppm STEL
Manitoba:	400 ppm TWA; 1600 mg/m ³ TWA 500 ppm STEL; 2000 mg/m ³ STEL
New Brunswick:	400 ppm TWA; 1640 mg/m ³ TWA 500 ppm STEL; 2050 mg/m ³ STEL
NW Territories:	400 ppm TWA; 1640 mg/m ³ TWA 500 ppm STEL; 2049 mg/m ³ STEL
Nova Scotia:	400 ppm TWA 500 ppm STEL
Nunavut:	400 ppm TWA; 1640 mg/m ³ TWA 500 ppm STEL; 2049 mg/m ³ STEL
Ontario:	400 ppm TWAEV; 1635 mg/m ³ TWAEV 500 ppm STEV; 2045 mg/m ³ STEV
Quebec:	400 ppm TWAEV; 1640 mg/m ³ TWAEV 500 ppm STEV; 2050 mg/m ³ STEV
Saskatchewan:	1640 mg/m ³ TWA; 400 ppm TWA 2050 mg/m ³ STEL; 500 ppm STEL
Yukon:	400 ppm TWA; 1600 mg/m ³ TWA 500 ppm STEL; 2000 mg/m ³ STEL



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Toluene (108-88-3)

Alberta:	50 ppm TWA; 188 mg/m ³ TWA
British Columbia:	50 ppm TWA
Manitoba:	100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
New Brunswick:	50 ppm TWA; 188 mg/m ³ TWA
NW Territories:	100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL 7 mg/m ³ STEL
Nova Scotia:	50 ppm TWA
Nunavut:	100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL
Ontario:	50 ppm TWAEV
Quebec:	100 ppm TWAEV; 377 mg/m ³ TWAEV 150 ppm STEV; 565 mg/m ³ STEV
Saskatchewan:	50 ppm TWA; 188 mg/m ³ TWA 60 ppm STEL; 235 mg/m ³ STEL
Yukon:	100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: White, creamy liquid.

ODOR: Rubber solvent

ODOR THRESHOLD: Not Available

BOILING POINT: 209 °F

SOLUBILITY IN WATER: Negligible

SPECIFIC GRAVITY: 0.7951

VAPOR PRESSURE: Not Established

% VOLATILE: 80 - 88 % by weight

10. STABILITY & REACTIVITY

INCOMPATIBILITY WITH OTHER MATERIALS: This product may react with alkali metals, halogens, and strong acids or bases.

HAZARDOUS POLYMERIZATION: Will not occur.

DECOMPOSITION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or other unidentified organic compounds.



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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

Liver and kidney damage may occur with prolonged exposure. Prolonged or repeated liquid contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis. Toluene may cause birth defects.

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

No information available for the product. Components may be harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Heptane (142-82-5)

Test & Species

24 Hr LC50 goldfish	4.0 mg/L
24 Hr LC50 mosquito fish	4900 mg/L
96 Hr LC50 cichlid fish	375.0 mg/L

Toluene (108-88-3)

Test & Species

96 Hr LC50 Pimephales promelas	25.0 mg/L [flow-trough]
96 Hr LC50 Oncorhynchus mykiss	24.0 mg/L [static]
96 Hr LC50 Lepomis macrochirus	13.0 mg/L [static]
96 Hr EC50 Selenastrum capricornutum	> 433 mg/L
30 min EC50 Photobacterium phosphoreum	19.7 mg/L
48 Hr EC50 Water flea	11.3 mg/L
48 Hr EC50 Water flea	310 mg/L
48 Hr EC50 Daphnia magna	11.3 mg/L

13. DISPOSAL CONSIDERATIONS

DISPOSAL: Whatever may be saved for recovery should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use, or contamination of this product may change



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the waste management options. State and local disposal regulations may differ from federal regulations. Dispose of container and unused contents in accordance with all federal, state, provincial, and local regulations.

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 172.102, 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", or, renamed, "Consumer Commodity" 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.: EmS = 3-05

Exceptions: For package and container size when Shipped as Limited Quantity under packing instruction P001, Provision PP1 and Chapter 3.4 (Limited Quantity).

IATA Information

Additional Info.: 3

15. REGULATORY INFORMATION

US FEDERAL REGULATIONS

SARA 313 INFORMATION:

Component Analysis

This material contains the following chemical required to be identified under SARA Section 313 (40 CFR 372.65)

Toluene (108-88-3)

SARA 313: 1.0% de minimis concentration

SARA HAZARD CATEGORY:

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



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COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA):

Component Analysis

None of this products components are listed under CERCLA (40 CFR 302.4).

TOXIC SUBSTANCES CONTROL ACT (TSCA): Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Heptane	142-82-5	Yes	DSL	EINECS
Toluene	108-88-3	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
Heptane	142-82-5	Yes	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	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.

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

CANADIAN REGULATIONS

WHMIS INFORMATION:

WHMIS Classification: B2, D2A, D2B



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Component Analysis - WHMIS IDL

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

Component	CAS #	Minimum Concentration
Heptane	142-82-5	1 %
Toluene	108-88-3	1 %

EUROPE:

Component Analysis

Component (CAS#)	EC #
Heptane (142-82-5)	205-563-8
Toluene (108-88-)	203-625-9

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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