



Material Safety Data Sheet

REMA TIP TOP

Product #'s: HS-T4-QT, HS-T4-GAL

MSDS #: RTT-IND-009

Rev. # 1

Rev. Date: 2/12/2008

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Tip Top Heating Solution T4 (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: 703-752-

2. PRODUCT INGREDIENTS

| <u>CHEMICAL NAME:</u> | <u>CAS NUMBER:</u> | <u>% RANGE:</u> | <u>OSHA PEL:</u> |
|--|--------------------|-----------------|------------------|
| Naphtha, petroleum, hydrotreated light | 64742-49-0 | 80-85 | Not Established |
| Lead monoxide | 1317-36-8 | 0.1-1 | Not Established |

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: C5 through C8 Aliphatic hydrocarbons, Lead compounds.

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 black liquid with a hydrocarbon-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. Contact may cause stinging, watering, and redness.

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

INGESTION: Harmful if swallowed. Ingestion of this product is not an expected exposure route in industrial or commercial uses. Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. May produce central nervous system depression. 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, loss of appetite, headache, drowsiness, dizziness, tremors, loss of coordination, lung congestion, convulsions, and coma.



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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: >-20°C (-4°F)

Upper Flammable Limit (UFL): 8%

Auto Ignition: 287.8°C (550°F)

Method Used: TOC, TCC, & COC

Lower Flammable Limit (LFL): 1.1% @ 100°C (212°F)

Flammability Classification: Class IB

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

EXTINGUISHING MEDIA: Water fog/ spray, carbon dioxide, and 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.

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.



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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.

EXPOSURE GUIDELINE(s):



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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.

Lead monoxide (1317-36-8)

NIOSH:

0.050 mg/m³ TWA (as Pb) (related to Lead compounds)

Component Exposure Limits - Canada

The provinces of Canada have not developed exposure limits for any of this product's components. Consult local authorities for acceptable exposure limits.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Black liquid

ODOR: Hydrocarbon-like

ODOR THRESHOLD: Not Available

BOILING POINT: 60-95°C (140-203°F)

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

SPECIFIC GRAVITY: <1 @ 20°C (68°F)

VAPOR PRESSURE: 135 mm Hg @ 20°C (68°F)

% VOLATILE: >85%

10. STABILITY & REACTIVITY

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

HAZARDOUS POLYMERIZATION: Will not occur.

DECOMPOSITION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide, nitrogen oxides, 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

Prolonged and/or repeated skin contact with this product may cause irritation, defatting of skin and dermatitis. Chronic poisoning has been described as producing secondary anemia, leucocytosis and cloudy swelling, and fatty degeneration of the viscera.



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CARCINOGENICITY

This product contains component(s) that may be listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

Component Carcinogenicity

Lead monoxide (1317-36-8)

NTP: Reasonably Anticipated To Be A Carcinogen (related to Lead compounds) (Possible Select Carcinogen)

IARC: Supplement 7, 1987 (listed under Lead and Lead compounds) (Group 2B (possibly carcinogenic to humans))

12. ECOLOGICAL INFORMATION

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

Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

13. DISPOSAL CONSIDERATIONS

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

UNUSED & UNCONTAMINATED PRODUCT:

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

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:** 1

Required Label(s): FLAMMABLE Liquid

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

EXCEPTIONS: DOT Paragraphs 173.150 & 173.201.

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: Yes Fire: Yes Pressure: No Reactive: No

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): All components are on the U.S. EPA TSCA Inventory List.

Component Analysis - Inventory

| Component | CAS # | TSCA | CAN | EEC |
|--|------------|------|-----|--------|
| Naphtha, petroleum, hydrotreated light | 64742-49-0 | Yes | DSL | EINECS |
| Lead monoxide | 1317-36-8 | 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 |
|---|-----------|------------------|-----|----|----|------------------|----|
| Lead monoxide (related to Lead compounds) | 1317-36-8 | Yes ¹ | Yes | No | No | Yes ¹ | No |

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 cancer.

CANADIAN REGULATIONS

This product is regulated under the Canadian Controlled Products Regulations.

WHMIS INFORMATION:

WHMIS Classification: B2, D2A, D2B

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

EUROPE:



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Component Analysis

Component (CAS#)

Naphtha, petroleum, hydrotreated light (64742-49-0)

Lead monoxide (1317-36-8)

EC

265-151-9

215-267-0

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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