



Material Safety Data Sheet

REMA TIP TOP

Product #'s: 5252932

MSDS #: RTT-IND-030

Rev. # 2

Rev. Date: 1/15/2011

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Tip Top Chemokitt V Primer B

Product Use: Primer coat

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>
Methylene chloride	75-09-2	50-60	Not Established
Styrene	100-42-5	20-30	100 ppm TWA

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 yellow liquid with a sweet, chloroform-like smell. It can cause eye, skin, respiratory and digestive system irritation. Harmful by inhalation. Harmful: may cause lung damage if swallowed. Symptoms of exposure may include central nervous system depression. Acute exposures to styrene may cause "styrene sickness" with symptoms including headache, nausea, dizziness, ataxia and unconsciousness. Components are known to cause mutagenic and teratogenic effects. Contains suspect carcinogens.

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

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. Contains a component that may be absorbed through the skin.

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

4. FIRST AID

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



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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. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

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: Not Available

Upper Flammable Limit (UFL): Not Available

Auto Ignition: >490°C (>914°F)

Method Used: Not Available

Lower Flammable Limit (LFL): Not Available

Flammability Classification: Not Available

HAZARDOUS COMBUSTION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide, hydrochloric gas, chlorine and/or traces of phosgene.

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

FIRE FIGHTING INSTRUCTIONS: Product may burn, but does not readily ignite. Combustion products may be hazardous. 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: 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: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

CLEAN-UP PROCEDURES: Wear appropriate protective equipment and clothing during clean-up. 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.

SPECIAL PROCEDURES: Follow all Local, State, Federal and Provincial regulations for disposal. Notify the proper authorities if entry to the environment occurs.



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7. HANDLING & STORAGE

HANDLING: Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling. DO NOT eat, drink or smoke in product area.

STORAGE: Do not store above 40°C (104°F). 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. 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.

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.

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.

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.

Methylene chloride (75-09-2)

ACGIH: 50 ppm TWA

OSHA: 25 ppm TWA (8 hr); 125 ppm STEL (15 min); 12.5 ppm Action Level (See 29 CFR 1910.1052)

Styrene (100-42-5)

ACGIH: 20 ppm TWA

40 ppm STEL

OSHA: 100 ppm TWA

200 ppm Ceiling

NIOSH: 50 ppm TWA; 215 mg/m³ TWA

100 ppm STEL; 425 mg/m³ STEL

Component Exposure Limits - Canada

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

Methylene chloride (75-09-2)

Alberta: 50 ppm TWA; 174 mg/m³ TWA



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British Columbia: 25 ppm TWA
Manitoba: 100 ppm TWA; 350 mg/m³ TWA
500 ppm STEL; 1740 mg/m³ STEL
New Brunswick: 50 ppm TWA; 174 mg/m³ TWA
NW Territories: 100 ppm TWA; 347 mg/m³ TWA
500 ppm STEL; 1737 mg/m³ STEL
Nova Scotia: 50 ppm TWA
Nunavut: 100 ppm TWA; 347 mg/m³ TWA
500 ppm STEL; 1737 mg/m³ STEL
Ontario: 50 ppm TWAEV; 175 mg/m³ TWAEV
Quebec: 50 ppm TWAEV; 174 mg/m³ TWAEV
Saskatchewan: 174 mg/m³ TWA; 50 ppm TWA
218 mg/m³ STEL; 63 ppm STEL
Yukon: 200 ppm TWA; 700 mg/m³ TWA (regulated under methylene chloride); 720 mg/m³ TWA
(regulated under dichloromethane)
250 ppm STEL; 870 mg/m³ STEL; 200 ppm STEL (Regulated under Dichloromethane); 720
mg/m³ STEL (Regulated under Dichloromethane)

Styrene (100-42-5)

Alberta: 50 ppm TWA; 213 mg/m³ TWA
100 ppm STEL; 426 mg/m³ STEL
British Columbia: 50 ppm TWA
75 ppm STEL
Manitoba: 50 ppm TWA; 215 mg/m³ TWA
100 ppm STEL; 425 mg/m³ STEL
New Brunswick: 20 ppm TWA; 85 mg/m³ TWA
40 ppm STEL; 170 mg/m³ STEL
NW Territories: 50 ppm TWA; 213 mg/m³ TWA
100 ppm STEL; 426 mg/m³ STEL
Nova Scotia: 20 ppm TWA
40 ppm STEL
Nunavut: 50 ppm TWA; 213 mg/m³ TWA
100 ppm STEL; 426 mg/m³ STEL
Ontario: 50 ppm TWAEV; 213 mg/m³ TWAEV
200 ppm STEV; 852 mg/m³ STEV
Quebec: 50 ppm TWAEV; 213 mg/m³ TWAEV
100 ppm STEV; 426 mg/m³ STEV
Saskatchewan: 213 mg/m³ TWA; 50 ppm TWA
426 mg/m³ STEL; 100 ppm STEL
Yukon: 100 ppm TWA; 420 mg/m³ TWA
125 ppm STEL; 525 mg/m³ STEL

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Yellow Liquid

ODOR: Sweet, chloroform

ODOR THRESHOLD: Not Available

BOILING POINT: ~50°C (112°F)



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SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 1.13-1.17 g/ml

VAPOR PRESSURE: Not Available

% VOLATILE: 80-90%

10. STABILITY & REACTIVITY

INCOMPATIBILITY WITH OTHER MATERIALS: Materials to avoid are alkaline earth metals, alkaline metals, strong acids, and strong oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

DECOMPOSITION PRODUCTS: Upon decomposition, this product emits carbon monoxide, carbon dioxide, hydrochloric gas, chlorine and/or traces of phosgene.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Can cause eye, skin, respiratory and digestive system irritation. Harmful by inhalation. Harmful: may cause lung damage if swallowed. Symptoms of exposure may include central nervous system depression.

Acute exposures to styrene may cause eye, skin and respiratory irritation, and central nervous system depression known as "styrene sickness" with symptoms including headache, nausea, dizziness, ataxia and unconsciousness. Severe intoxication may cause encephalopathy and hepatitis. Chronic overexposure to styrene may cause neurological defects and impairment of lung, kidney and liver function.

CHRONIC TOXICITY

Chronic overexposure to styrene may cause neurological defects and impairment of lung, kidney and liver function. Occupational styrene exposure has been linked with menstrual disorders, miscarriages and birth defects, however some studies have found no correlation with styrene exposure and reproductive effects.

CARCINOGENICITY

Methylene chloride is a suspect human carcinogen.

Styrene has been found to be carcinogenic in rodent inhalation studies, while the results of human carcinogenicity studies have been conflicting and inconclusive. However, styrene should be handled as a suspect carcinogen.



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Component Carcinogenicity

Methylene chloride (75-09-2)

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans
 OSHA: 25 ppm TWA (8 hr); 125 ppm STEL (15 min); 12.5 ppm Action Level (See 29 CFR 1910.1052)
 NIOSH: Potential occupational carcinogen
 NTP: Reasonably Anticipated To Be A Carcinogen (Possible Select Carcinogen)
 IARC: Monograph 71, 1999; Supplement 7, 1987 (Group 2B (possibly carcinogenic to humans))

Styrene (100-42-5)

ACGIH: A4 - Not Classifiable as a Human Carcinogen
 IARC: Monograph 82, 2002; Monograph 60, 1994 (Group 2B (possibly carcinogenic to humans))

12. ECOLOGICAL INFORMATION

No data available for this product. Contains components harmful to aquatic life.

Component Analysis - Ecotoxicity - Aquatic Toxicity

Methylene chloride (75-09-2)

Test & Species

	Conditions
96 Hr LC50 Pimephales promelas	193 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	310 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	10.95 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	193 mg/L [static]
96 Hr LC50 Lepomis macrochirus	193 mg/L [flow-through]
96 Hr EC50 Selenastrum capricornutum	>660 mg/L
24 Hr EC50 Nitrosomonas	1 mg/L
15 min EC50 Photobacterium phosphoreum	2.88 mg/L
48 Hr EC50 water flea	140 mg/L [Static]

Styrene (100-42-5)

Test & Species

	Conditions
96 Hr LC50 Pimephales promelas	4.02 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	25.05 mg/L [static]
96 Hr LC50 Pimephales promelas	29 mg/L [static]
72 Hr EC50 Selenastrum capricornutum	1.4 mg/L
96 Hr EC50 Selenastrum capricornutum	0.72 mg/L
5 min EC50 Photobacterium phosphoreum	5.4 mg/L
48 Hr EC50 Daphnia magna	4.7 mg/L

13. DISPOSAL CONSIDERATIONS

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

UNUSED & UNCONTAMINATED PRODUCT:



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Component Waste Numbers

Methylene chloride (75-09-2)

RCRA:

waste number U080

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

14. TRANSPORT INFORMATION

US DOT Information

Shipping Name: Dichloromethane, Solution

UN/NA #: UN1593 Hazard Class: 6.1 Packing Group: III

Required Label(s): POISON

Additional Info.: PLACARD (WHEN REQUIRED): POISON, 6.1

EXCEPTIONS: DOT Paragraphs 173.153, 173.203, & 173.241.

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: Dichloromethane, Solution

UN/NA #: UN1593 Hazard Class: 6.1 Packing Group: III

Required Label(s): POISON

IMDG Information

Additional Info.: F-A, S-A

IATA Information

Additional Info.: 6.1

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).

Methylene chloride (75-09-2)

SARA 313: 0.1 % de minimis concentration

Styrene (100-42-5)

SARA 313: 0.1 % de minimis concentration

SARA HAZARD CATEGORY:

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

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA):



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Component Analysis

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

Methylene chloride (75-09-2)

CERCLA: 1000 lb final RQ; 454 kg final RQ

Styrene (100-42-5)

CERCLA: 1000 lb final RQ; 454 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
Methylene chloride	75-09-2	Yes	DSL	EINECS
Styrene	100-42-5	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
Methylene chloride	75-09-2	Yes	Yes	Yes	Yes	Yes	Yes
Styrene	100-42-5	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 cancer.

CANADIAN REGULATIONS

This product is regulated under the Canadian Controlled Products Regulations.

WHMIS INFORMATION:

WHMIS Classification:

D1B- Toxic Material

D2A- Chronic effects, lung sensitization

D2B- Irritating to eyes and skin



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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
Methylene chloride	75-09-2	0.1 %
Styrene	100-42-5	0.1 %

EUROPE:

Component Analysis

Component (CAS#)	EC #
Methylene chloride (75-09-2)	200-838-9
Styrene (100-42-5)	202-851-5

16. OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

NFPA Ratings: Health: 2 Fire: 1 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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