



Material Safety Data Sheet

Product No.525 2310

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Tip Top Primer S 500-2
 Product Use: Primer coat
 MSDS Preparation Date: 3/22/2006
 Manufacturer: REMA TIP TOP/NO. AMERICA, 119 Rockland Avenue, Northvale, NJ 07647
 24-Hour Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. PRODUCT INGREDIENTS

<u>CHEMICAL NAME:</u>	<u>CAS NUMBER:</u>	<u>% RANGE:</u>	<u>OSHA PEL:</u>
Xylenes (o-, m-, p- isomers)	1330-20-7	60-75	200 ppm TWA
Toluene	108-88-3	5-10	100 ppm TWA; 435 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.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

This product is a black liquid with an aromatic odor. This product is a flammable liquid and vapor. Vapors may cause flash fire. It can cause eye, skin, respiratory and digestive system irritation. Harmful by inhalation and in contact with skin. Aspiration hazard. Symptoms of exposure may include central nervous system depression. Contains a component that may cause birth defects.

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

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. 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: 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.

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. Discard any shoes or clothing items that cannot be decontaminated.

INGESTION: Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. 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: 24°C (75.2°F)

Upper Flammable Limit (UFL): 7.5%

Auto Ignition: Not Available

Method Used: Not Available

Lower Flammable Limit (LFL): 1%

Flammability Classification: Class IB Flammable Liquid

HAZARDOUS COMBUSTION PRODUCTS: Upon decomposition, this product emits 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: Wear appropriate personal protective equipment. 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.

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: 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. A NIOSH approved self-contained positive pressure breathing apparatus, with full-face piece, is required for spills and/ or emergencies.

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.



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Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: 100 ppm TWA
150 ppm STEL

OSHA: 100 ppm TWA; 435 mg/m³ TWA

Toluene (108-88-3)

ACGIH: 50 ppm TWA
Skin - potential significant contribution to overall exposure by the cutaneous route

OSHA: 200 ppm TWA
300 ppm Ceiling

NIOSH: 100 ppm TWA; 375 mg/m³ TWA
150 ppm STEL; 560 mg/m³ STEL

Component Exposure Limits – Canada

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

Xylenes (o-, m-, p- isomers) (1330-20-7)

Alberta:	100 ppm TWA; 434 mg/m ³ TWA 150 ppm STEL; 651 mg/m ³ STEL
British Columbia:	100 ppm TWA 150 ppm STEL
Manitoba:	100 ppm TWA; 435 mg/m ³ TWA 150 ppm STEL; 655 mg/m ³ STEL
New Brunswick:	100 ppm TWA; 434 mg/m ³ TWA 150 ppm STEL; 651 mg/m ³ STEL
NW Territories:	100 ppm TWA; 434 mg/m ³ TWA 150 ppm STEL; 652 mg/m ³ STEL
Nova Scotia:	100 ppm TWA 150 ppm STEL
Nunavut:	100 ppm TWA; 434 mg/m ³ TWA 150 ppm STEL; 652 mg/m ³ STEL
Ontario:	100 ppm TWAEV; 435 mg/m ³ TWAEV 150 ppm STEV; 650 mg/m ³ STEV
Quebec:	100 ppm TWAEV; 434 mg/m ³ TWAEV 150 ppm STEV; 651 mg/m ³ STEV
Saskatchewan:	434 mg/m ³ TWA; 100 ppm TWA 651 mg/m ³ STEL; 150 ppm STEL
Yukon:	100 ppm TWA; 435 mg/m ³ TWA 150 ppm STEL; 650 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
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:	188 mg/m ³ TWA; 50 ppm TWA 235 mg/m ³ STEL; 60 ppm STEL
Yukon:	100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Black liquid

ODOR: Aromatic

ODOR THRESHOLD: Not Available

BOILING POINT: 135-145°C (275-293°F)

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 1 g/ml @ 20°C (68°F)

VAPOR PRESSURE: 8-25 mbar @ 20°C (68°F)

% VOLATILE: <85%

10. STABILITY & REACTIVITY

INCOMPATIBILITY WITH OTHER MATERIALS: Materials to avoid are strong oxidizing materials.

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

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). May be absorbed through the skin.



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CHRONIC TOXICITY

Liver and kidney damage may occur. Repeated or prolonged contact has a defatting action, causing drying, redness, dermatitis. Toluene may cause birth defects.

CARCINOGENICITY

No information available for the product.

Component Carcinogenicity

Xylenes (o-, m-, p- isomers) (1330-20-7)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71, 1999; Monograph 47, 1989 (Group 3 (not classifiable))

Toluene (108-88-3)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71, 1999; Monograph 47, 1989 (Group 3 (not classifiable))

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

Xylenes (o-, m-, p- isomers) (1330-20-7)

Test & Species

96 Hr LC50 Pimephales promelas	13.4 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	8.05 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	16.1 mg/L [flow-through]
96 Hr LC50 Pimephales promelas	26.7 mg/L [static]
24 hr EC50 Photobacterium phosphoreum	0.0084 mg/L
48 Hr EC50 water flea	3.82 mg/L
48 Hr LC50 Gammarus lacustris	0.6 mg/L

Conditions

Toluene (108-88-3)

Test & Species

96 Hr LC50 Pimephales promelas	25 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	24.0 mg/L [static]
96 Hr LC50 Lepomis macrochirus	24.0 mg/L [static]
96 Hr LC50 Lepomis macrochirus	13 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

Conditions

1 day old

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

Xylenes (o-, m-, p- isomers) (1330-20-7)

RCRA:

waste number U239 (Ignitable waste, Toxic waste)

Toluene (108-88-3)

RCRA:

waste number U220

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: III

Required Label(s): FLAMMABLE LIQUID

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

EXCEPTIONS: DOT Paragraphs 173.150, 173.202, & 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: III

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).

Xylenes (o-, m-, p- isomers) (1330-20-7)

SARA 313:

1.0 % de minimis concentration

Toluene (108-88-3)

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).

Xylenes (o-, m-, p- isomers) (1330-20-7)

CERCLA: 100 lb final RQ; 45.4 kg final RQ

Toluene (108-88-3)

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
Xylenes (o-, m-, p- isomers)	1330-20-7	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
Xylenes (o-, m-, p- isomers)	1330-20-7	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

This product is regulated under the Canadian Controlled Products Regulations.

WHMIS INFORMATION:

WHMIS Classification:

B2- Flammable Liquid

D2A- Chronic effects

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
Toluene	108-88-3	1 %

EUROPE:

Component Analysis

Component (CAS#)	EC #
Xylenes (o-, m-, p- isomers) (1330-20-7)	215-535-7
Toluene (108-88-3)	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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