

MATERIAL SAFETY DATA SHEET

Prepared in accordance with OSHA1910.1200 and ANSI Z400.1 and Canadian WHMIS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Paint, Tar and Rubber Remover for Pavers and Slabs

MANUFACTURER: Techni-Seal Inc.
ADDRESS: 1470, De Coulomb
Boucherville (Quebec)
Canada J4B 7K2

Phone: 1-800-465-7325 (North America) 514-523-8324 (International)

Emergency Phone: CANUTEC (613) 996-6666

Website: www.techniseal.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Conc in %
Light Aromatic Solvent Naphtha - contains	64742-95-6	20-50
1,2,4-trimethylbenzene	95-63-6	5-25
1,3,5-trimethylbenzene	108-67-8	1-10
Cumene	98-82-8	0-2
Xylene	1330-20-7	0-1
n-Methyl-2-pyrrolidone	872-50-4	10-30
Dimethyl Glutarate	1119-40-0	10-30
Dimethyl Adipate	627-93-0	5-20
Dimethyl Succinate	106-65-0	5-20
Octylphenoxyethoxyethanol	9036-19-5	1-5

See Section 8 for Exposure Limits

3. HAZARDS IDENTIFICATION

Red liquid with a solvent odor.

EMERGENCY OVERVIEW

Warning! Combustible liquid and vapor. Vapors can travel to a source of ignition and flash back. Harmful or fatal if swallowed. May irritate eyes and skin. Inhalation of vapors may cause irritation of the nose, throat and respiratory tract, headache, dizziness, drowsiness, blurred vision and other nervous system effects. May be harmful if absorbed through the skin.

See Section 11 for detailed information

4. FIRST AID MEASURES

INGESTION: If conscious, rinse mouth with a small amount of water. Aspiration Hazard – DO NOT induce vomiting. Seek immediate medical attention. Never give anything by mouth to a person who is unconscious or drowsy.

SKIN CONTACT: Remove contaminated clothing and wash immediately with plenty of soap and water. Get medical attention if irritation or other symptoms develop. Launder contaminated clothing before reuse.

EYE CONTACT: Rinse immediately with plenty of water for 15 minutes, while lifting the eyelids. Get immediate medical attention.

INHALATION: Remove affected person from source of exposure. If symptoms of exposure persist, get medical attention. If breathing is difficult, have qualified person administer oxygen. If breathing has stopped, administer artificial respiration and get immediate medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: 107°F (42°C) closed cup

AUTOIGNITION TEMPERATURE: 860-945°F (460-507°C)

FLAMMABLE LIMITS IN AIR (% BY VOL.) LOWER: 0.01% UPPER:7.9%

BASIC FIREFIGHTING PROCEDURES: Use water fog, dry chemical, carbon dioxide or foam. Do not use solid water stream – may spread fire. Firefighters should always wear positive pressure self-contained breathing apparatus and protective clothing when fighting fires involving chemicals. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid and vapor. Vapors may flow across surfaces and travel to remote ignition sources and flash back. Burning product may float on the surface of water and spread fire. Product is lighter than water and will float on the surface and may be reignited.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide carbon dioxide, nitrogen oxides, various organic compounds and dense smoke.

6. ACCIDENTAL RELEASE MEASURES

Spill: Evacuate area. Eliminate all sources of ignition including electric motors and pilot lights. Ventilate area. Wear appropriate protective clothing to avoid eye and skin contact including impervious gloves, safety goggles and respirator if needed. Contain and collect using an inert absorbent. Place into an appropriate container for disposal. Dike large spills and collect into appropriate containers. Prevent spill from entering waterways or sewers. Report spills and releases as required to appropriate authorities.

7. HANDLING AND STORAGE

HANDLING: Avoid breathing vapors. Use only with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wear appropriate protective clothing and equipment handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, flames and all other sources of ignition. Electrostatic discharge may cause fire. Electrically bond and ground metal containers during transfer. No smoking in use or storage areas. Keep containers closed when not in use.

STORAGE: Store in cool, dry, well-ventilated area. Keep containers closed. Keep away from incompatible materials (see Section 10). Do not store in direct sunlight.

EMPTY CONTAINERS: Empty containers may contain product residue and may be dangerous. Do not cut, weld, drill, etc. on or near containers, even empty containers, as fire or explosion may occur. Follow all MSDS precautions in handling empty containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

EXPOSURE LIMITS

Chemical Name	Exposure Limits
Light Aromatic Solvent Naphtha	400 ppm ACGIH TLV-TWA 100 ppm OSHA PEL-TWA
Trimethylbenzenes	25 ppm ACGIH TLV-TWA
Cumene	50 ppm ACGIH TLV-TWA 50 ppm OSHA PEL-TWA skin
Xylene	100 ppm ACGIH TLV-TWA, 150 ppm TLV-STEL 100 ppm OSHA PEL-TWA
n-Methyl-2-Pyrrolidone	10 ppm AIHA WEEL-TWA skin
Dimethyl Glutarate	10 mg/m ³ TWA (manufacturer recommended)
Dimethyl Adipate	10 mg/m ³ TWA (manufacturer recommended)
Dimethyl Succinate	10 mg/m ³ TWA (manufacturer recommended)
Octylphenoxyethoxyethanol	None Established

ENGINEERING CONTROLS: Use with adequate general or local exhaust ventilation to maintain exposures below applicable occupational exposure limits.

EYE PROTECTION: Safety glasses or goggles recommended.

SKIN PROTECTION: Avoid skin contact. Wear impervious gloves if needed to avoid contact.

RESPIRATORY PROTECTION: If needed, a NIOSH approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2, CSA Standard Z94.4-02 and good Industrial Hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >157°C (315°F)

SPECIFIC GRAVITY: 0.963 g/cm³

FREEZING POINT: <-78°C (-108°F)

% VOLATILE: 100%

VAPOR PRESSURE: Approx. 2 mmHg @ 20°C

EVAPORATION RATE (BUTYL ACETATE = 1): 0.3

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: Partially soluble

OCTANOL/WATER PARTITION COEFFICIENT: Not determined

pH: Not applicable

VISCOSITY: 575 cps

VOC: 963 g/L

APPEARANCE/ODOR: Red liquid with a solvent odor.

10. STABILITY AND REACTIVITY DATA

STABILITY: Stable under normal conditions of use and storage.

INCOMPATIBILITY: Strong mineral acids, strong bases, strong oxidizing agents.

CONDITIONS TO AVOID: Avoid heat, sparks, flames and all other sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide carbon dioxide, nitrogen oxides, various organic compounds and dense smoke.

11. TOXICOLOGICAL INFORMATION

PRODUCT HEALTH HAZARD INFORMATION

SKIN: May cause irritation. Prolonged and/or repeated contact may cause severe irritation or burns. Repeated contact may cause dermatitis. May be harmful if absorbed through the skin.

EYE: May cause severe irritation and blurred vision.

INHALATION: May cause irritation of the nose, throat and upper respiratory tract. Overexposure may cause headache, dizziness, drowsiness, blurred vision and other central nervous effects. Excessive exposure may cause coma, respiratory failure, convulsions and even death.

INGESTION: May cause irritation of the mouth and gastrointestinal tract with abdominal pain, nausea and vomiting and nervous system effects. Aspiration hazard – aspiration of this material into the lungs during ingestion or vomiting may cause serious lung damage, which may be fatal.

CHRONIC HEATH EFFECTS: Chronic overexposure may cause damage to hearing, liver, kidney and spleen based on studies with laboratory animals. N-Methyl-2-Pyrrolidone has been found to cause toxicity to the fetus in animal exposed during pregnancy. None of the components of this product present at 0.1% or greater are listed as carcinogens or suspected carcinogens by IARC, NTP or OSHA.

ACUTE TOXICITY VALUES

Light Aromatic Solvent Naphtha: LD50 oral rat 8,400 mg/kg.

n-Methyl-2-Pyrrolidone: LD50 oral rat 3914 mg/kg, LD50 skin rabbit 8000 mg/kg

Dimethyl Glutarate: No data available

Dimethyl Adipate: LD50 oral rat >5000 mg/kg, LD50 skin rabbit >5000 mg/kg

Dimethyl Succinate: No data available

Octylphenoxypolyethoxyethanol: LD50 oral rat 500-707 mg/kg, LD50 skin rabbit 12,300 mg/kg

12. ECOLOGICAL INFORMATION

The ecological effects of this product have not been determined.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Excepted from Hazmat for ground shipment in packages less than 10,000 lbs (49CFR 173.150(f))

DOT HAZARD CLASS: N/A

UN NUMBER: N/A

DOT LABELS REQUIRED: None

HAZARD SUBSTANCE: Xylene

REPORTABLE QUANTITY: 10,000 lbs (product)

CANADIAN TDG PROPER SHIPPING NAME: Exempted from Dangerous Goods when shipped via road or rail in small means of containment (TDG Part 1.33)

TDG HAZARD CLASS: N/A

UN NUMBER: N/A

TDG LABELS REQUIRED: None

IATA/IMDG PROPER SHIPPING NAME: Flammable Liquid, n.o.s. (Light Aromatic Solvent Naphtha)

IMDG HAZARD CLASS: 3, PG III

UN NUMBER: UN1993

LABELS REQUIRED: Class 3

15. REGULATORY INFORMATION

SARA TITLE III INFORMATION:

Section 311/312 (40 CFR 370) **Hazard Categories:** Acute Health, Chronic Health, Fire Hazard

Section 313 (40 CFR 372): This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirement:

n-Methyl-2-Pyrrolidone	872-50-4	10-30%
1,2,4-trimethylbenzene	95-63-6	5-25%
Cumene	98-82-8	0-2%
Xylene	1330-20-7	0-1%

Section 302 (40 CFR 355): This product does not contain chemicals listed as extremely hazardous chemicals under SUPERFUND Amendments and Reauthorization Act (SARA).

CERCLA 103 Reportable Quantity: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for xylene (1% maximum) of 100 lbs, is 10,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA TSCA: All of the components of this product are listed on the EPA TSCA Inventory.

California Proposition 65: This product contains the following chemicals known to the State of California to cause cancer, birth defects or other reproductive harm: n-Methyl-2-Pyrrolidone 10-30% (developmental toxicity), Benzene <0.005% (cancer, male reproductive toxicity and developmental toxicity), Toluene <0.025% (developmental toxicity)

Canadian Environmental Protection Act: All the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

Canadian WHMIS Classification: Class B-3 (Combustible Liquid), Class D, Division 2, Subdivision A (Very Toxic Material causing other Toxic Effects)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

NFPA Rating: Health: 2 Fire: 2 Reactivity: 0
HMIS Rating: Health: 2 Fire: 2 Reactivity: 0

REVISION DATE: 06/01/05

REPLACES SHEET DATED: 8/25/03

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information. It is the responsibility of the user to determine the applicability of this information for his use.