

MATERIAL SAFETY DATA SHEET

Date Issued: 11-05-2012

Picrin

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Picrin**GENERAL USE:** For professional drycleaning use only.**PRODUCT DESCRIPTION:** Stain Removal Agent**MANUFACTURER**R. R. Street & Co. Inc.
215 Shuman Boulevard/Suite 403
Naperville, IL 60563**Product Stewardship:** 800-323-7206 (USA
& Canada only) or 630-416-4244**24 HR. EMERGENCY TELEPHONE NUMBERS****Medical Emergency:** 866-303-6947 (USA & Canada
only) or 651-632-9272**Transportation Emergency:** 800-424-9300 (USA &
Canada only) or 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>
Trichloroethylene	>75	79-01-6

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS**EYES:** Substance may cause substantial eye irritation.**SKIN:** May cause skin irritation. Prolonged or repeated contact may cause dermatitis.**SKIN ABSORPTION:** Absorption through skin is possible but not a likely route of significant exposure.**INGESTION:** Low to moderate toxicity.

Can cause adverse health effects as described under INHALATION. In the case of vomiting after ingestion, product may be aspirated into lungs causing chemical pneumonia, which in extreme cases could lead to death. See section 4, First Aid Measures, for more information.

INHALATION: High concentrations can cause central nervous system depression, irregular heartbeat, cardiac arrest, unconsciousness or death.**SIGNS AND SYMPTOMS OF OVEREXPOSURE****EYES:** Irritation and pain.**SKIN:** Irritation.**SKIN ABSORPTION:** No data available.**INGESTION:** Irritation of mouth, nausea.**INHALATION:** Headache, nausea, dizziness, vertigo, fatigue, lightheadedness and coughing.**MEDICAL CONDITIONS AGGRAVATED:** Skin contact may aggravate pre-existing dermatitis. Prolonged overexposure may complicate liver and kidney disease.**ROUTES OF ENTRY:** Inhalation and skin.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Remove contaminated clothing. Wash with soap and water. If irritation persists, call a physician.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove affected person to fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

NOTES TO PHYSICIAN: Chlorinated hydrocarbons may sensitize the heart to epinephrine and adrenaline so that arrhythmias may occur.

ADDITIONAL INFORMATION: After emergency actions, call the emergency medical information number on page 1 or a physician immediately.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None (TCC).

FLAMMABLE LIMITS: 8% to 45%

AUTOIGNITION TEMPERATURE: 420°C (788°F).

FLAMMABLE CLASS: Not applicable.

EXTINGUISHING MEDIA: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride, phosgene.

OTHER CONSIDERATIONS: Concentrated vapor can be ignited by high-intensity ignition source.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spill with absorbent material.

LARGE SPILL: Provide plenty of fresh air. Contain spill. Avoid breathing vapor. Clean up spills immediately with absorbent material, observing precautions in the Personal Protective Equipment section. Place absorbed material in closed containers for disposal (see section 13). Do not flush to sewer. Avoid contamination of ground and surface waters.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Not applicable.

HANDLING: Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

STORAGE: Store in labeled, tightly sealed containers in a cool, dry, well ventilated area.

ELECTROSTATIC ACCUMULATION HAZARD: Not applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		<u>EXPOSURE LIMITS</u>					
		<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>	
		<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Trichloroethylene	TWA	100		10 ^[1]			
	STEL	200 ^[2]		25			

TABLE FOOTNOTES:

1. A2: Suspected human carcinogen.
2. Ceiling concentration. A 300 ppm peak concentration is allowed for 5 minutes in any 2-hour period.

ENGINEERING CONTROLS: Local exhaust may be required to control vapor concentration.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety glasses with side shields, or goggles.

SKIN: Viton®, PVA, or Barrier™ gloves.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

PROTECTIVE CLOTHING: Where contact is likely, wear the appropriate chemical resistant equipment, which depending on circumstances may include, chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

WORK HYGIENIC PRACTICES: Wash thoroughly after handling. Do not smoke in presence of vapor. Do not eat or drink in work area.

OTHER USE PRECAUTIONS: Have eye wash station available. Do not wear contact lenses without eye protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid.

ODOR: Ethereal.

APPEARANCE: Clear.

COLOR: Colorless.

pH: Not applicable.

PERCENT VOLATILE: 100

VAPOR PRESSURE: 58 mm Hg at 20°C

VAPOR DENSITY: 4.5 (air = 1)

BOILING POINT: 87°C (188°F)

FREEZING POINT: -85°C (-121°F)

SOLUBILITY IN WATER: Negligible.

EVAPORATION RATE: 4.5 (butyl acetate = 1)

SPECIFIC GRAVITY: 1.45

VISCOSITY: No data available.

COEFF. OIL/WATER: 2.42

ODOR THRESHOLD: 20 ppm

10. STABILITY AND REACTIVITY

STABLE: Yes.

HAZARDOUS POLYMERIZATION: No.

CONDITIONS TO AVOID: Contact with open flame, electric arcs, other hot surfaces which can cause thermal decomposition.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, phosgene.

INCOMPATIBLE MATERIALS: Strong alkalis, oxidizers, sodium, potassium, lithium, aluminum, barium, magnesium, titanium.

11. TOXICOLOGICAL INFORMATION**ACUTE**

DERMAL LD₅₀: >2,000 mg/kg (rabbit)

ORAL LD₅₀: >5000 mg/kg (rat)

INHALATION LC₅₀: 12,500 ppm (rat)

CHRONIC

TARGET ORGANS: Chronic overexposure to trichloroethylene has caused toxic effects in the liver, kidney, hearing, and central nervous system of experimental animals.

SENSITIZATION: Has produced allergic effects in laboratory animals.

CARCINOGENICITY

IARC: Trichloroethylene is classified as 2A (Probably carcinogenic to humans).

NTP: Trichloroethylene is on the NTP list of substances reasonably anticipated to be human carcinogens.

OSHA: Not listed as a carcinogen.

OTHER: ACGIH: A2. Limited epidemiology data have shown a weak association between trichloroethylene exposure and renal cancer.

OTHER: No data available.

REPRODUCTIVE EFFECTS: Not applicable.

MUTAGENICITY: Evidence for trichloroethylene is equivocal.

SYNERGISTIC MATERIALS: Alcohol.

GENERAL COMMENTS: Refer to Section 3 for additional information on potential health effects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Trichloroethylene has moderate persistence in the environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Recovered liquids may be sent to a licensed reclaimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult federal, state and local authorities for approved procedures.

EMPTY CONTAINER: Do not cut or weld empty drums.

RCRA/EPA WASTE INFORMATION: Contains material(s) listed by RCRA as a hazardous waste.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Trichloroethylene**PRIMARY HAZARD CLASS/DIVISION:** 6.1**UN/NA NUMBER:** UN1710**PACKING GROUP:** III**LABEL:** Toxic, PG III**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 8 gal**OTHER SHIPPING INFORMATION:** Original 4x1-gallon packaging is approved for ground shipments only. Drums of this product contain a Reportable Quantity of trichloroethylene.**CANADA TRANSPORT OF DANGEROUS GOODS****PROPER SHIPPING NAME:** Trichloroethylene**PRIMARY HAZARD CLASS/DIVISION:** 6.1**UN/NA NUMBER:** UN1710**PACKING GROUP:** III**LABEL:** Toxic**OTHER SHIPPING INFORMATION:** Original 4x1-gallon packaging is approved for ground shipments only.**AIR (ICAO/IATA)****PROPER SHIPPING NAME:** Trichloroethylene**PRIMARY HAZARD CLASS/DIVISION:** 6.1**UN/NA NUMBER:** UN1710**LABEL:** Toxic**PACKING GROUP:** III**PLACARDS:** Consult applicable regulations governing air shipments.**IATA NOTE:** Original 4x1-gallon packaging is not approved for air shipment. Consult applicable regulations for packaging requirements and quantity limitations.

15. REGULATORY INFORMATION**UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:****FIRE:** No. **PRESSURE GENERATING:** No. **REACTIVITY:** No. **ACUTE:** Yes.
CHRONIC: Yes.**313 REPORTABLE INGREDIENTS:** Trichloroethylene is reportable.**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA RQ:** Trichloroethylene has an RQ of 100 lbs.**REPORTABLE SPILL QUANTITY:** 8 gals**RCRA STATUS:** See section 13.**CANADA****WHMIS CLASS:** Class D, Divisions 1 & 2**MEXICO**

Regulated for transportation.

STATE REGULATIONS**MASSACHUSETTS**

Contains one or more substances regulated by the Massachusetts Substance List.

CALIFORNIA

PROPOSITION 65 STATEMENT: Trichloroethylene is on the Proposition 65 list known to the State of California to cause cancer.

16. OTHER INFORMATION

HMIS RATINGS	
HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	H

NFPA RATINGS