

MATERIAL SAFETY DATA SHEET

Date-Issued: 08/04/2000

MSDS Ref. No: P-3

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Revision No: New MSDS

Picrin

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Picrin®**GENERAL USE:** For professional drycleaning use only.**PRODUCT DESCRIPTION:** Stain Removal Agent**PRODUCT CODE:** PIC-US**MANUFACTURER**

R. R. Street & Co. Inc.

184 Shuman Boulevard

Naperville, IL 60563

Product Stewardship: 800-323-7206**Transportation:** 800-424-9300**24 HR. EMERGENCY
TELEPHONE NUMBERS****Emergency Phone:** 800-228-5635

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name

Trichloroethylene

Wt. %

~100

CAS# EINECS#

79-01-6

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS**EYES:** Substance may cause substantial eye irritation and possible damage.**SKIN:** May cause skin irritation.**SKIN ABSORPTION:** Absorption through skin is possible but not a likely route of significant exposure.**INGESTION:** Low to moderate toxicity. May cause vomiting. Can cause adverse health effects as described under INHALATION.**INHALATION:** High concentrations can cause central nervous system depression, irregular heartbeat, cardiac arrest, unconsciousness or death.

3. HAZARDS IDENTIFICATION^(continued)

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation and pain.

SKIN: Irritation.

SKIN ABSORPTION: No data available.

INGESTION: Nausea and vomiting.

INHALATION: Headache, nausea, vomiting, dizziness, vertigo, fatigue, lightheadedness and coughing.

ACUTE TOXICITY:

If ingested, vomiting may occur; vomit may be aspirated into lungs causing chemical pneumonia.

CHRONIC:

Exposure can cause intolerance to ethyl alcohol, with small quantities causing inebriation and skin blotches. Prolonged or repeated contact may cause dermatitis.

CARCINOGENICITY:

See section 11.

MUTAGENICITY:

See section 11.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: See section 11.

TERATOGENIC EFFECTS: Not applicable.

MEDICAL CONDITIONS AGGRAVATED: Alcoholism, liver disease, rhythm disorders of the heart, neuritis.

ROUTES OF ENTRY: Inhalation and skin.

TARGET ORGAN STATEMENT: See section 11.

CANCER STATEMENT: See section 11.

SENSITIZATION: Not applicable.

4. FIRST AID MEASURES

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

4. FIRST AID MEASURES (continued)

SKIN: Remove contaminated clothing. Wash with soap and water.

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

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

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.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE CLASS: Not applicable.

EXTINGUISHING MEDIA: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

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.

FLASHPOINT: (footnote) TCC

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, phosgene and chlorine.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Absorb the liquid and scrub the area with detergent and water.

LARGE SPILL:

Contain spill. Avoid breathing vapor. Clean up spills immediately with absorbent material, observing precautions in the Protective Equipment section. Place absorbed material in closed containers for disposal. Do not flush to sewer. Avoid contamination of ground and surface waters.

7. HANDLING AND STORAGE

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.

SHELF LIFE: 1 year, minimum.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

EXPOSURE LIMITS

	<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		50* ⁽¹⁾		
	STEL	200 ⁽²⁾		100		

OSHA TABLE COMMENTS:

1. * = A5

2. Ceiling concentration. 300 ppm peak concentration allowed once in any 2 hour period.

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

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: Wear Viton(r), PVA, or Barrier(tm) 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION^(continued)

PROTECTIVE CLOTHING: Where contact is likely, wear 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

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.

STABILITY: Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, phosgene and chlorine.

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

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: >10000 mg/kg (rabbit)

ORAL LD₅₀: >5000 mg/kg (rat)

INHALATION LC₅₀: >2000 ppm (rat)

TARGET ORGANS: Chronic overexposure to trichloroethylene has caused toxic effects in the liver, lymphatic (one species), kidney and cardiovascular system of experimental animals.

SUBCHRONIC:

Reports have been published associating increased incidences of scleroderma (systemic sclerosis) with exposures to trichloroethylene.

CARCINOGENICITY:

IARC: Trichloroethylene is classified as 2A.

NTP: Trichloroethylene is on the NTP list.

OSHA: Not listed as a carcinogen.

MUTAGENICITY: Evidence for trichloroethylene is equivocal.

SYNERGISTIC MATERIALS: Consumption of alcohol may increase the potential for development of toxic effects resulting from exposure to trichloroethylene.

REPRODUCTIVE EFFECTS: Some transient fetal effects from inhalation of trichloroethylene have been observed in rats.

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 full or 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

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 8 gal

OTHER SHIPPING INFORMATION: 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

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Trichloroethylene

PRIMARY HAZARD CLASS/DIVISION: 6.1

UN/NA NUMBER: UN1710

PACKING GROUP: III

PLACARDS: Consult applicable regulations governing air shipments.

IATA NOTE: Consult IATA 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)

15. REGULATORY INFORMATION_(continued)

CERCLA RQ: Trichloroethylene has an RQ of 100 lbs.

REPORTABLE SPILL QUANTITY: 8 gals

RCRA STATUS: See section 13.

CANADA

WHMIS CLASS: Class D, Division 2

MEXICO

Regulated for transportation.

STATE REGULATIONS

MASSACHUSETTS

Contains one or more substances named on the Massachusetts Substance List.

CALIFORNIA

PROPOSITION 65 STATEMENT: Trichloroethylene is on Proposition 65 list.

16. OTHER INFORMATION

REVISION SUMMARY

New MSDS

NFPA CODES

HEALTH: 2 FIRE: 1 REACTIVITY: 0

HMIS CODES

HEALTH: 3 FIRE: 1 REACTIVITY: 0 PROTECTION: H