

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Pyratex®

GENERAL USE: For professional drycleaning use only.

PRODUCT DESCRIPTION: Stain Removal Agent

MANUFACTURER

R. R. Street & Co. Inc.
184 Shuman Boulevard
Naperville, IL 60563
Phone: 800-323-7206

24 HR. EMERGENCY TELEPHONE NUMBERS

Medical Emergency: 800-228-5635
Transportation Emergency: 800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

The specific identity of the component(s) of this product is withheld as a trade secret.

Chemical Name

(trade secret #1)

(trade secret #2)

(trade secret #3)

(trade secret #4)

Wt. %

CAS#

EINECS#

-	-	-
-	-	-
-	-	-
-	-	-

COMMENTS:

#1 = aliphatic carboxylic ester

#2 = glycol ether, <30%

#3 = aliphatic ketone, <15%

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES: Substance may cause substantial eye irritation and possible damage.

SKIN: May cause skin irritation.

SKIN ABSORPTION: May penetrate skin readily resulting in absorption of potentially harmful amounts.

INGESTION: Moderately toxic. May be absorbed and cause central nervous system depression; in extreme cases unconsciousness and death. May cause vomiting.

INHALATION: Extreme concentrations may cause unconsciousness or death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe irritation.

SKIN: Irritation.

SKIN ABSORPTION: No data available.

INGESTION: Headache, dizziness, nausea, vomiting, fatigue and diarrhea; digestive tract irritation.

INHALATION: Headache, dizziness, nausea, narcosis and irritation of the respiratory tract.

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

CHRONIC: Prolonged or repeated contact may cause dermatitis.

CARCINOGENICITY: Not applicable.

MUTAGENICITY: Not applicable.

OTHER EFFECTS

REPRODUCTIVE EFFECTS: See section 11.

TERATOGENIC EFFECTS: Not applicable.

3. HAZARDS IDENTIFICATION *(continued)*

MEDICAL CONDITIONS AGGRAVATED: Pre-existing eye, skin and respiratory disorders.

ROUTES OF ENTRY: Inhalation and skin.

TARGET ORGAN STATEMENT: See section 11.

CANCER STATEMENT: Does not contain any substance(s) listed as carcinogenic.

SENSITIZATION: Not applicable.

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.

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: 40°C (104°F)COC

FLAMMABLE LIMITS: 1-2 to 7.5-15

AUTOIGNITION TEMPERATURE: 244°C (471°F) to 449°C (840°F)

FLAMMABLE CLASS: NFPA Class IC

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide.

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

LARGE SPILL: Extinguish all ignition sources. Avoid breathing vapor. Contain spill. 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

GENERAL PROCEDURES: Keep away from heat, sparks and flame.

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, well ventilated area.

SHELF LIFE: 1 year, minimum.

ELECTROSTATIC ACCUMULATION HAZARD: Ground and bond containers when transferring material.

(SEE NEXT PAGE FOR SECTION 8.)

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>
(trade secret #1)	TWA	150		150		
	STEL	NE ^[1]		200		
(trade secret #2)	TWA	50* ^[2]		20		
	STEL	NE		NE		
(trade secret #3)	TWA	100		50		
	STEL	NE		75		
(trade secret #4)	TWA	NE		NE		
	STEL	NE		C 25		

OSHA TABLE COMMENTS: 1. NE=Not established. 2. * = Skin
The specific identity of the component(s) of this product is withheld as a trade secret.

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 butyl 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 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: Mild.

APPEARANCE: Clear.

COLOR: Light yellow to amber.

pH: 8

PERCENT VOLATILE: 72

VAPOR PRESSURE: ~8 mm Hg at 20°C

VAPOR DENSITY: ~4 (Air=1)

BOILING POINT: ~110°C (230°F)

FREEZING POINT: <0°C (32°F)

SOLUBILITY IN WATER: Dispersible.

EVAPORATION RATE: ~0.6 Butyl acetate = 1

SPECIFIC GRAVITY: 0.91

COEFF. OIL/WATER: No data available.

ODOR THRESHOLD: 0.1 ppm

COMMENTS:

PERCENT VOLATILE: Approximate.

BOILING POINT: Initial boiling point.

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: None.

STABILITY: Stable.

POLYMERIZATION: Will not occur.

INCOMPATIBLE MATERIALS: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: ~1600 mg/kg (rat)

INHALATION LC₅₀: ~450-6000 ppm (rat)

TARGET ORGANS: A component of this product has caused hemolysis of blood in rats; not considered relevant to humans.

Rats exposed to 1000 ppm of a component of this product for 90 days showed evidence of kidney damage; not considered relevant to humans.

CARCINOGENICITY

IARC: Not listed as a carcinogen.

NTP: Not listed as a carcinogen.

OSHA: Not listed as a carcinogen.

SYNERGISTIC MATERIALS: Possibly haloalkanes.

REPRODUCTIVE EFFECTS: A component of this product showed some fetotoxicity in lab animals exposed to high concentrations.

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

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: The major components have low persistence in the environment and have low aquatic toxicity.

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: Flammable Liquid, NOS

TECHNICAL NAME: Aliphatic carboxylic ester, Aliphatic ketone

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1993

PACKING GROUP: III

LABEL: Cases of 6 one-gallon cans and individual one-gallon cartons are Limited Quantities. No Flammable Liquid (Class 3) label required when shipped by ground.

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Flammable Liquid, NOS

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN1993

PACKING GROUP: III

14. TRANSPORT INFORMATION (continued)**AIR (ICAO/IATA)****PROPER SHIPPING NAME:** Flammable Liquid, NOS**PRIMARY HAZARD CLASS/DIVISION:** 3**UN/NA NUMBER:** UN1993**PACKING GROUP:** III**PLACARDS:** Consult applicable regulations governing air shipments.**LABEL:** Flammable Liquid (Class 3) label required when shipped by air.**IATA NOTE:** Consult applicable regulations on packaging requirements and quantity limitations.**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:** FIRE: YES PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES CHRONIC: YES**313 REPORTABLE INGREDIENTS:** Ingredients 2 and 3 are reportable.**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)****CERCLA RQ:** One or more ingredients has an RQ of 5000 lbs.**REPORTABLE SPILL QUANTITY:** > 1000 gals**RCRA STATUS:** See section 13.**STATE REGULATIONS****MASSACHUSETTS:** Contains one or more substances named on the Massachusetts Substance List. Code # 99-013-012.**CALIFORNIA: PROPOSITION 65 STATEMENT:** Not applicable.**CANADA****WHMIS CLASS:** Class B, Division 2 and Class D, Division 2**MEXICO**

Regulated for transportation.

16. OTHER INFORMATION

HMIS RATINGS:	
HEALTH:	2
FLAMMABILITY:	3
REACTIVITY:	0
PERSONAL PROTECTION:	H

NFPA RATINGS: