

MATERIAL SAFETY DATA SHEET

Date-Issued: 11/01/2000

MSDS Ref. No: R-1

Revision No: New MSDS

Ready Strip

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Ready-Strip™**GENERAL USE:** For professional drycleaning use only.**PRODUCT DESCRIPTION:** Stain Removal Agent**PRODUCT CODE:** RSP-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

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Titanium sulfate		10343-61-0	
Sulfuric acid	<5	7664-93-9	

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS**EYES:** Highly corrosive; may cause blindness.**SKIN:** Highly corrosive; prolonged contact causes burns.**SKIN ABSORPTION:** Not applicable.**INGESTION:** Severe burning of the mouth, damage to tissues, and can be fatal in large quantities.**INHALATION:** Not a likely route of exposure at room temperature. Vapors from heated material can cause severe burning and corrosion of the respiratory tract and damage mucous membranes.

3. HAZARDS IDENTIFICATION_(continued)

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Severe irritation, redness.

SKIN: Irritation and redness.

SKIN ABSORPTION: Not applicable.

INGESTION: Nausea, vomiting and abdominal pain.

INHALATION: Irritation of the nose, throat and upper respiratory tract.

ACUTE TOXICITY:

Chemical burns.

CHRONIC:

No data available.

CARCINOGENICITY:

Not applicable.

MUTAGENICITY:

Not applicable.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: Not applicable.

TERATOGENIC EFFECTS: Not applicable.

MEDICAL CONDITIONS AGGRAVATED: No data available.

ROUTES OF ENTRY: Inhalation and skin.

TARGET ORGAN STATEMENT: Not applicable.

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 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.

4. FIRST AID MEASURES (continued)

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: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

FLAMMABLE CLASS: Not applicable.

EXTINGUISHING MEDIA: Not applicable.

HAZARDOUS COMBUSTION PRODUCTS: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Flush with large amount of water.

LARGE SPILL:

Contain spill. Avoid breathing vapor. Neutralize with soda ash or baking soda, observing precautions in the Protective Equipment section. Place neutralized material in closed containers for disposal. Do not flush to sewer. Avoid contamination of ground and surface waters. Flush any residue with water.

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 area. Avoid storage at temperatures above 110 F or below 40 F for extended periods.

SHELF LIFE: 1 year, minimum.

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>
Titanium sulfate	TWA	NE ⁽¹⁾			NE	
	STEL	NE			NE	
Sulfuric acid	TWA		1		1	
	STEL		NE		3	

OSHA TABLE COMMENTS:

1. NE=Not established.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical goggles and a face shield.

SKIN: Wear rubber or Barrier(tm) gloves.

RESPIRATORY: NIOSH/MSHA approved sulfur dioxide or acid gas respirator 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.

WORK HYGIENIC PRACTICES: Wash thoroughly after handling. 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 acrid odor.

APPEARANCE: May have some sediment.

COLOR: Dark purple.

pH: <1

PERCENT VOLATILE: 71

VAPOR PRESSURE: <17 mm Hg at 20°C

VAPOR DENSITY: >1 (Air=1)

9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

BOILING POINT: 100°C (212°F)
FREEZING POINT: <0°C (32°F)
SOLUBILITY IN WATER: Miscible.
EVAPORATION RATE: ~0.3 Butyl acetate = 1
SPECIFIC GRAVITY: 1.3
COEFF. OIL/WATER: No data available.
ODOR THRESHOLD: No data available.

10. STABILITY AND REACTIVITY

STABLE: YES
HAZARDOUS POLYMERIZATION: NO
CONDITIONS TO AVOID: None.
STABILITY: Stable.
POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Fumes of sulfuric acid, titanium oxides and also hydrogen in presence of reactive metals.
INCOMPATIBLE MATERIALS: Strong bases, organics, combustibles and reactive metals.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 900 mg/kg (rabbit)
INHALATION LC₅₀: No data available.

CARCINOGENICITY:

IARC: Not listed as a carcinogen.
NTP: Not listed as a carcinogen.
OSHA: Not listed as a carcinogen.
SYNERGISTIC MATERIALS: No data available.
GENERAL COMMENTS: Refer to Section 3 for additional information on potential health effects.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.

RCRA/EPA WASTE INFORMATION: Contains material(s) that are corrosive wastes as defined by RCRA.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Liquid, NOS

TECHNICAL NAME: Sulfuric acid

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN1760

PACKING GROUP: II

LABEL: Cases of 6 one pint bottles and individual one pint cartons are Limited Quantities. No Corrosive (Class 8) label required when shipped by ground.

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Not regulated.

TECHNICAL NAME: Sulfuric acid

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN1760

PACKING GROUP: II

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Corrosive Liquid, NOS

TECHNICAL NAME: Sulfuric acid

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN1760

PACKING GROUP: II

PLACARDS: Consult applicable regulations governing air shipments.

LABEL: Corrosive Liquid (Class 8) 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: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES
CHRONIC: NO**

313 REPORTABLE INGREDIENTS: None.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA RQ: Sulfuric acid has an RQ of 1000 lbs.

REPORTABLE SPILL QUANTITY: > 1800 gals

RCRA STATUS: See section 13.

CANADA

WHMIS CLASS: Class D, Division 2 and Class E

MEXICO

Regulated for transportation.

STATE REGULATIONS

MASSACHUSETTS

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

CALIFORNIA

PROPOSITION 65 STATEMENT: Not applicable.

16. OTHER INFORMATION

NFPA CODES

HEALTH: 3 FIRE: 1 REACTIVITY: 1

HMIS CODES

HEALTH: 3 FIRE: 1 REACTIVITY: 1 PROTECTION: D