

# MATERIAL SAFETY DATA SHEET

Date Issued: 10-24-2012

Ready Strip

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Ready Strip**GENERAL USE:** For professional drycleaning and laundry use only.**PRODUCT DESCRIPTION:** Stain Removal Agent**MANUFACTURER**R. R. Street & Co. Inc.  
215 Shuman Boulevard/Suite 403  
Naperville, IL 60563**Product Information:** 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

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt. %</u>	<u>CAS#</u>
Titanium sulfate		10343-61-0
Sulfuric acid	<10	7664-93-9

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## 3. HAZARDS IDENTIFICATION

**POTENTIAL HEALTH EFFECTS****EYES:** May cause burns.**SKIN:** May cause burns.**SKIN ABSORPTION:** No data available.**INGESTION:** May cause burns in mouth and throat.**INHALATION:** High concentrations may cause bronchitis, lung damage.**SIGNS AND SYMPTOMS OF OVEREXPOSURE****EYES:** Irritation.**SKIN:** Irritation.**SKIN ABSORPTION:** No data available.**INGESTION:** No data available**INHALATION:** Irritation of the nose, throat and upper respiratory tract.**MEDICAL CONDITIONS AGGRAVATED:** No data available.**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 water. Consult a physician if irritation persists.

**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 medical attention.

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

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#### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not applicable.

**FLAMMABLE LIMITS:** Not applicable.

**AUTOIGNITION TEMPERATURE:** Not applicable.

**FLAMMABLE CLASS:** Not applicable.

**EXTINGUISHING MEDIA:** Not applicable.

**HAZARDOUS COMBUSTION PRODUCTS:** Not applicable.

**FIRE FIGHTING EQUIPMENT:** Not applicable.

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#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Clean up spill with absorbent material and water, if necessary.

**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 (see section 13). Do not flush to sewer. Avoid contamination of ground and surface waters.

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

**ELECTROSTATIC ACCUMULATION HAZARD:** Not applicable.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**
**EXPOSURE GUIDELINES:****OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

	<b><u>EXPOSURE LIMITS</u></b>					
	<b><u>OSHA PEL</u></b>		<b><u>ACGIH TLV</u></b>		<b><u>Supplier OEL</u></b>	
	<b><u>ppm</u></b>	<b><u>mg/m<sup>3</sup></u></b>	<b><u>ppm</u></b>	<b><u>mg/m<sup>3</sup></u></b>	<b><u>ppm</u></b>	<b><u>mg/m<sup>3</sup></u></b>
Titanium sulfate	<b>TWA</b>	NE <sup>(1)</sup>		NE		
	<b>STEL</b>	NE		NE		
Sulfuric acid	<b>TWA</b>	1		1		
	<b>STEL</b>	NE		3		

**TABLE FOOTNOTES:**

1. NE=Not established.

**ENGINEERING CONTROLS:** Not applicable.**PERSONAL PROTECTIVE EQUIPMENT****EYES AND FACE:** Chemical goggles.**SKIN:** Rubber or Barrier™ 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.**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 eat or drink in work area.**OTHER USE PRECAUTIONS:** Have eye wash station available. Do not wear contact lenses without eye protection.

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**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)**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

**VISCOSITY:** No data available.

**COEFF. OIL/WATER:** No data available.

**ODOR THRESHOLD:** No data available.

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## 10. STABILITY AND REACTIVITY

**STABLE:** Yes.

**HAZARDOUS POLYMERIZATION:** No.

**CONDITIONS TO AVOID:** Heat.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Fumes of sulfuric acid and hydrogen in presence of reactive metals.

**INCOMPATIBLE MATERIALS:** Strong bases, organics, combustibles and reactive metals.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** No data available.

**ORAL LD<sub>50</sub>:** 900 mg/kg (rat)

**INHALATION LC<sub>50</sub>:** No data available.

### CHRONIC

**TARGET ORGANS:** No data available.

**SENSITIZATION:** No data available.

### CARCINOGENICITY:

**IARC:** Not listed as a carcinogen.

**NTP:** Not listed as a carcinogen.

**OSHA:** Not listed as a carcinogen.

**OTHER:** Not applicable.

**OTHER:** No data available.

**REPRODUCTIVE EFFECTS:** No data available.

**MUTAGENICITY:** No data available.

**SYNERGISTIC MATERIALS:** No data available.

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

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## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** No data available.

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## 13. DISPOSAL CONSIDERATIONS

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

**EMPTY CONTAINER:** Not applicable.

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

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**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.**OTHER SHIPPING INFORMATION:** Original product packaging is labeled, marked, and approved for ground shipments only.**CANADA TRANSPORT OF DANGEROUS GOODS****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.**OTHER SHIPPING INFORMATION:** Original product packaging is labeled, marked, and approved for ground shipments only.**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**LABEL:** Corrosive Liquid (Class 8) label required when shipped by air.**PLACARDS:** Consult applicable regulations governing air shipments.**IATA NOTE:** Original product packaging is not approved for air shipment. Consult applicable regulations on packaging requirements and quantity limitations.

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**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 regulated by the Massachusetts Substance List.

**CALIFORNIA:****PROPOSITION 65 STATEMENT:** This product contains no ingredients known to the state of California to cause cancer, birth defects, or other reproductive harm.

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**16. OTHER INFORMATION**

<b>HMIS RATINGS</b>	
HEALTH:	3
FLAMMABILITY:	0
REACTIVITY:	3
PERSONAL PROTECTION:	H

**NFPA RATINGS**