

Classified according to WHMIS 2015

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation:

Chromic Acid Standard

Product Number: R2078000 Other Identifying Product Numbers: R2078000-1C1

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) CHEMTREC (International) 800-424-9300 1+ 703-527-3887

Safety Data Sheet

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

		Hazard	
Hazard Class	Category	Statements	Precautionary Statements:
Acute Toxicity - Oral	Category 2	H300	P264, P270, P301+P310, P321, P330, P405,
			P501
Acute Toxicity - Dermal	Category 3	H311	P280, P302+P352, P312, P321, P361, P405,
			P501
Acute Toxicity - Inhalation	Category 3	H331	P261, P271, P304+P340, P311, P321,
			P403+P233, P405, P501
Skin Corrosion / Irritation	Category 1	H314	P260, P264, P280, P301+P330+P331,
			P303+P361+P353, P363, P304+P340, P310,
			P321, P305+P351+P338, P405, P501
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Respiratory Sensitizer	Category 1	H334	P261, P285, P304+P341, P342+P311, P501
Skin Sensitizer	Category 1	H317	P261, P272, P280, P302+P352, P332+P313,
			P321, P363, P501
Germ Cell Mutagenicity	Category 2	H341	P201, P202, P280, P308+P313, P405, P501
Carcinogenicity	Category 1	H350	P201, P202, P280, P308+P313, P405, P501
Reproductive Toxicity	Category 1	H360	P201, P202, P280, P308+P313, P405, P501
Corrosive to Metals	Category 1	H290	P234, P390, P406
Hazardous to the Aquatic Environment (Acute)	Category 2	H401	P273, P501
Hazardous to the Aquatic Environment (Chronic)	Category 1	H410	P273, P391, P501

2.2. GHS Label Elements

Pictograms:



Safety Data Sheet

Hazard Statements:

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H300	Fatal if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H401	Toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

RICCA CHEMICAL COMPANY[®]

Safety Data Sheet

Precautionary Statements:

Precautionary Number	Precautionary Statement
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original container.
P260	Do not breathe fumes, mist, vapors, or spray.
P261	Avoid breathing fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or physician.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical attention.
P310	Immediately call a POISON CENTER or physician.
P311	Call a POISON CENTER or physician.
P312	Call a POISON CENTER or physician if you feel unwell.
P321	Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry
	cloth before flushing with water).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or physician.
P361	Take off immediately all contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.



P501 Dispose of contents in accordance with local, state, federal and international regulations.

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Number	Weight%
Water	H ₂ O	18.01 g/mol 7732-18-5	77.85
Chromium (VI) Oxide	CrO ₃	99.99 g/mol 1333-82-0	21.93
Sulfuric Acid	H_2SO_4	98.07 g/mol 7664-93-9	0.21

SECTION 4: First-Aid Measures

4.1. General First Aid Information

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Corrosive! Causes irritation and burns. Can cause burns that may lead to permanent impairment of vision, including blindness.

- Inhalation: IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
- Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause irritation, dermatitis, redness and pain. May be absorbed through skin on prolonged exposure.
 - **Ingestion:** IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Dilute with water or milk. Vomiting may occur spontaneously but do not induce. Call a physician immediately.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Fatal if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. DANGER! Corrosive. May be harmful if swallowed. Contains Hexavalent Chromium compound, which is a known carcinogen. If swallowed, do not induce vomiting. Give large quantity of water. Call a physician. Wash areas of contact with water for at least 15 minutes. For eyes, get medical attention. EYE CONTACT: Corrosive! Causes irritation and burns. Can cause burns that may lead to permanent impairment of vision, including blindness. SKIN CONTACT: May cause irritation, dermatitis, redness and pain. May be absorbed through skin on prolonged exposure. CHRONIC EFFECTS / CARCINOGENICITY: May affect the skin, liver, kidneys and blood.

Safety Data Sheet

4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry cloth before flushing with water). Irrigate immediately with large quantity of water for at least 15 minutes. Get medical attention immediately. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. Wash with soap and water, then flush again with water. Call a physician if irritation develops. Dilute with water or milk. Vomiting may occur spontaneously but do not induce. Call a physician immediately.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Dry chemical, foam, water, or carbon dioxide.

5.2. Specific Hazards Arising from the Substance or Mixture

Strong oxidizer. Decomposes at 482 °F (250 °C) with release of oxygen. Not combustible, but if involved in a fire decomposes to produce chromium fumes.

5.3. Special Protective Equipment for Firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

6.2. Cleanup and Containment Methods and Materials

Shovel into suitable dry container. Control runoff and isolate discharged material for proper disposal.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store in corrosive resistant container with a resistant inner liner. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Empty containers may be hazardous since they retain product residues. Store at room temperature.

RICCA CHEMICAL COMPANY[®]

Safety Data Sheet

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Chromium (VI) Oxide (1333-82-0)	PEL	USA	"5 μg/m ³ TWA (See 29 CFR 1910.1026, as Cr); 2.5 μg/m ³ Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Specifically Regulated Chemicals with PELs
Chromium (VI) Oxide (1333-82-0)	TWA	USA	"5 μg/m³ TWA" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Chromium (VI) Oxide (1333-82-0)	TLV-STEL	USA	"0.0005 mg/m ³ STEL (inhalable particulate matter, as Cr(VI))" As Hexavalent chromium inorganic water-soluble compounds [RR-53130-6]	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Chromium (VI) Oxide (1333-82-0)	TLV-TWA	USA	"0.0002 mg/m ³ TWA (inhalable particulate matter, as Cr(VI))" As Hexavalent chromium inorganic water-soluble compounds [RR-53130-6]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Chromium (VI) Oxide (1333-82-0)	PEL-Ceiling	USA	"0.1 mg/m ³ Ceiling (applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect, as CrO3)" As Chromates [RR-01554-3]	U.S OSHA - Final PELs - Ceiling Limits
Chromium (VI) Oxide (1333-82-0)	TWA	USA	"5 μg/m ³ TWA" As Chromium(VI) compounds [RR-00026-0]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)

RICCA CHEMICAL COMPANY[®]

Safety Data Sheet

Chromium (VI) Oxide (1333-82-0)	PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated Chemicals with PELs
			1910.1026, as Cr); 2.5 μg/m³ Action Level (as Cr)"	Chemicals with PELS
			As Chromium(VI)	
			compounds [RR-00026-0]	
Chromium (VI) Oxide (1333-82-0)	PEL	USA	5 μg/m ³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
	FEL	USA	1910.1026, as Cr); 2.5	Chemicals with PELs
			μg/m ³ Action Level (as Cr)	Chemicals with FEES
Chromium (VI) Oxide (1333-82-0)	TWA	USA	5 μg/m ³ TWA	U.S OSHA - Final PELs - Time
	IMA	UUA	σμg/m TWA	Weighted Averages (TWAs)
Chromium (VI) Oxide (1333-82-0)	PEL-Ceiling	USA	0.1 mg/m ³ Ceiling (applies	U.S OSHA - Final PELs - Ceiling
			to any operations or sectors	Limits
			for which the Hexavalent	
			Chromium standard [29	
			CFR 1910.1026] is stayed	
			or is otherwise not in effect,	
			as CrO3)	
Chromium (VI) Oxide (1333-82-0)	PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
			1910.1026, as Cr); 2.5	Chemicals with PELs
			µg/m³ Action Level (as Cr)"	
			As Chromium(VI)	
			compounds [RR-00026-0]	
Chromium (VI) Oxide (1333-82-0)	TWA	USA	"5 µg/m³ TWA" As	U.S OSHA - Final PELs - Time
			Chromium(VI) compounds	Weighted Averages (TWAs)
			[RR-00026-0]	
Chromium (VI) Oxide (1333-82-0)	PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
			1910.1026, as Cr); 2.5	Chemicals with PELs
			µg/m ³ Action Level (as Cr)"	
			As Chromium(VI)	
			compounds [RR-00026-0]	
Chromium (VI) Oxide (1333-82-0)	TWA	USA	"5 μg/m³ TWA" As	U.S OSHA - Final PELs - Time
			Chromium(VI) compounds	Weighted Averages (TWAs)
			[RR-00026-0]	
Chromium (VI) Oxide (1333-82-0)	TLV-TWA	USA	0.0002 mg/m ³ TWA	ACGIH - Threshold Limit Values - Time
			(inhalable particulate	Weighted Averages (TLV-TWA)
			matter, as Cr(VI))	
Chromium (VI) Oxide (1333-82-0)	TLV-STEL	USA	0.0005 mg/m ³ STEL	ACGIH - Threshold Limit Values -
			(inhalable particulate	Short Term Exposure Limits
			matter, as Cr(VI))	(TLV-STEL)
Sulfuric Acid (7664-93-9)	TWA	USA	1 mg/m³ TWA	U.S OSHA - Final PELs - Time
				Weighted Averages (TWAs)

Safety Data Sheet

Sulfuric Acid (7664-93-9)	TLV-TWA	USA	0.2 mg/m ³ TWA (thoracic	ACGIH - Threshold Limit Values - Time
			particulate matter)	Weighted Averages (TLV-TWA)

8.2. Exposure Controls

Engineering Controls: Use only outdoors or in a well-ventilated area. No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate. If necessary, wear a respirator equipped with an acid gas cartridge.

Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves.

Eye Protection: Wear protective gloves and eye protection. Safety glasses or goggles.

8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate. If necessary, wear a respirator equipped with an acid gas cartridge. Chemical resistant gloves. Safety glasses or goggles.

Safety Data Sheet

SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

```
Appearance: Orange liquid
                  Physical State: Liquid
                            Odor: Data not available.
                Odor Threshold: Data not available.
                               pH: Data not available.
        Melting/Freezing Point: Data not available.
    Initial Boiling Point/Range: Data not available.
                     Flash Point: Data not available.
              Evaporation Rate: Data not available.
                   Flammability: Data not available.
Flammability/Explosive Limits: Data not available.
                Vapor Pressure: Data not available.
                  Vapor Density: Data not available.
               Relative Density: 1.16
                       Solubility: Miscible
           Partition Coefficient: Data not available.
    Auto-Ignition Temperature: Data not available.
 Decomposition Temperature: Data not available.
                        Viscosity: Data not available.
          Explosive Properties: Data not available.
           Oxidizing Properties: Data not available.
```

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Keep only in original container. Ordinary combustible materials (such as paper, wood, cloth and oil), halogens, reducing agents, organic compounds, hydrogen sulfide, phosphorus and heat. Contact with combustible material may cause fire.



10.4. Hazardous Decomposition Products

Will not occur.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Fatal if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry cloth before flushing with water). Rinse mouth. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Dermal Exposure:

Toxic in contact with skin. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry cloth before flushing with water). Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Inhalation Exposure:

Toxic if inhaled. Avoid breathing fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry cloth before flushing with water). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Other Information:

LD50, Oral, Rat: 80 mg/kg (Chromium Trioxide), respiratory, hair and gastrointestinal effects noted.

Skin Corrosion and Irritation:

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Respiratory Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

Safety Data Sheet

Skin Sensitization:

May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry cloth before flushing with water). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

Germ Cell Mutagenicity:

Suspected of causing genetic defects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Carcinogenicity:

May cause cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Reproductive Toxicity:

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Very toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage. Dispose of contents in accordance with local, state, federal and international regulations.

12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.



12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

Proper

SECTION 14: Transportation Information

14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Sizes:	1 L
UN Number:	UN1755
Shipping Name:	Chromic Acid Solution
Hazard Class:	8

Packing Group:

Hazard Label(s):



14.2. Transportation by Air - International Air Transport Association (IATA)

Sizes:	1 L
UN Number:	UN1755
Proper Shipping Name:	Chromic Acid Solution
Hazard Class:	8
Packing Group:	II
Hazard Label(s):	CORROSIVE
	8



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 1L

UN Number: UN1755

Proper Shipping Name: CHROMIC ACID SOLUTION

Hazard Class: 8

Packing Group:

Hazard Label(s):



SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Chromium (VI) Oxide (CAS # 1333-82-0): "5 µg/m3 TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m3 Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]

Chromium (VI) Oxide (CAS # 1333-82-0): 5 µg/m3 TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m3 Action Level (as Cr)

15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Sulfuric Acid (CAS # 7664-93-9): 1000 lb EPCRA RQ Sulfuric Acid (CAS # 7664-93-9): 1000 lb TPQ

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Sulfuric Acid (CAS # 7664-93-9): 1000 lb final RQ; 454 kg final RQ

15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Chromium (VI) Oxide (CAS # 1333-82-0): "0.1 % de minimis concentration (includes any unique chemical substance that contains Chromium as part of that chemical's infrastructure except for Chromite ore mined in the Transvaal Region of South Africa and the unreacted ore component of the Chromite ore processing residue (COPR), no de minimis concentration has been assigned to this chemical category, listed under Chemical Category N090)" As Chromium(VI) compounds [RR-00026-0]

Chromium (VI) Oxide (CAS # 1333-82-0): 0.1 % de minimis concentration (includes any unique chemical substance that contains Chromium as part of that chemical's infrastructure except for Chromite ore mined in the Transvaal Region of South Africa and the unreacted ore component of the Chromite ore processing residue (COPR), no de minimis concentration has been assigned to this chemical category, listed under Chemical Category N090)

Sulfuric Acid (CAS # 7664-93-9): 1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

15.5. Massachusetts Right-to-Know Substance List

Chromium (VI) Oxide (CAS # 1333-82-0): Carcinogen; Extraordinarily hazardous Sulfuric Acid (CAS # 7664-93-9): Extraordinarily hazardous Sulfuric Acid (CAS # 7664-93-9): Present

Product Number: R2078000



15.6. Pennsylvania Right-to-Know Hazardous Substances

Chromium (VI) Oxide (CAS # 1333-82-0): "Environmental hazard" As Chromium compounds [RR-00634-8] Chromium (VI) Oxide (CAS # 1333-82-0): "Environmental hazard; Special hazardous substance" As Chromium compounds, hexavalent [RR-00026-0]; "Environmental hazard" As Chromium compounds [RR-00634-8] Chromium (VI) Oxide (CAS # 1333-82-0): "Present" As Chromium compounds [RR-00634-8] Chromium (VI) Oxide (CAS # 1333-82-0): "Present" As Chromium compounds, hexavalent [RR-00026-0] Chromium (VI) Oxide (CAS # 1333-82-0): "Present" As Chromium compounds, hexavalent [RR-00026-0]; "Present" As Chromium compounds [RR-00634-8] Chromium (VI) Oxide (CAS # 1333-82-0): Environmental hazard Chromium (VI) Oxide (CAS # 1333-82-0): Environmental hazard; Special hazardous substance Chromium (VI) Oxide (CAS # 1333-82-0): Present Chromium (VI) Oxide (CAS # 1333-82-0): Special hazardous substance Sulfuric Acid (CAS # 7664-93-9): Environmental hazard Sulfuric Acid (CAS # 7664-93-9): Environmental hazard (listed under Sulfuric acid) Sulfuric Acid (CAS # 7664-93-9): Present Sulfuric Acid (CAS # 7664-93-9): Present (listed under Sulfuric acid) Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6] Water (CAS # 7732-18-5): Present 15.7. New Jersey Worker and Community Right-to-Know Components Chromium (VI) Oxide (CAS # 1333-82-0): "carcinogen" As Chromium(VI) compounds [RR-00026-0] Chromium (VI) Oxide (CAS # 1333-82-0): "SN 2245 500 lb TPQ (Category Code N090. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Chromium compounds [RR-00634-8] Chromium (VI) Oxide (CAS # 1333-82-0): "sn 2245" As Chromium compounds [RR-00634-8] Chromium (VI) Oxide (CAS # 1333-82-0): "sn 3575" As Chromium(VI) compounds [RR-00026-0]; "sn 2245" As Chromium compounds [RR-00634-8] Chromium (VI) Oxide (CAS # 1333-82-0): carcinogen Chromium (VI) Oxide (CAS # 1333-82-0): carcinogen; teratogen Chromium (VI) Oxide (CAS # 1333-82-0): sn 0437 Chromium (VI) Oxide (CAS # 1333-82-0): sn 2245 Chromium (VI) Oxide (CAS # 1333-82-0): SN 2245 500 lb TPQ (Category Code N090. Includes any unique chemical substance that contains the named metal as part of that chemical structure) Chromium (VI) Oxide (CAS # 1333-82-0): sn 3575 Sulfuric Acid (CAS # 7664-93-9): carcinogen; corrosive; reactive - second degree Sulfuric Acid (CAS # 7664-93-9): sn 1761 Sulfuric Acid (CAS # 7664-93-9): SN 1761 500 lb TPQ Sulfuric Acid (CAS # 7664-93-9): sn 1762



15.8. California Proposition 65

Chromium (VI) Oxide (CAS # 1333-82-0): "carcinogen, 2/27/1987" As Chromium hexavalent compounds [RR-00026-0] Chromium (VI) Oxide (CAS # 1333-82-0): "developmental toxicity, 12/19/2008" As Chromium(VI) compounds [RR-00026-0] Chromium (VI) Oxide (CAS # 1333-82-0): "female reproductive toxicity 12/19/08" As Chromium hexavalent compounds [RR-00026-0] Chromium (VI) Oxide (CAS # 1333-82-0): "male reproductive toxicity, 12/19/08" As Chromium hexavalent compounds [RR-00026-0] Chromium (VI) Oxide (CAS # 1333-82-0): "male reproductive toxicity, 12/19/08" As Chromium hexavalent compounds [RR-00026-0] Chromium (VI) Oxide (CAS # 1333-82-0): carcinogen, 2/27/1987 Chromium (VI) Oxide (CAS # 1333-82-0): developmental toxicity, 12/19/2008 Chromium (VI) Oxide (CAS # 1333-82-0): female reproductive toxicity 12/19/08 Chromium (VI) Oxide (CAS # 1333-82-0): male reproductive toxicity, 12/19/08 Sulfuric Acid (CAS # 7664-93-9): "carcinogen, 3/14/2003" As Strong inorganic acid mists containing sulfuric acid [RR-03978-1] Sulfuric Acid (CAS # 7664-93-9): carcinogen, 3/14/2003

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Chromium (VI) Oxide (CAS # 1333-82-0): Present (DSL) Sulfuric Acid (CAS # 7664-93-9): Present (DSL) Water (CAS # 7732-18-5): Present (DSL)

15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Chromium (VI) Oxide (CAS # 1333-82-0): Present [R] (ACTIVE) Sulfuric Acid (CAS # 7664-93-9): Present (ACTIVE) Water (CAS # 7732-18-5): Present (ACTIVE)

15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Chromium (VI) Oxide (CAS # 1333-82-0): 215-607-8 Sulfuric Acid (CAS # 7664-93-9): 231-639-5 Water (CAS # 7732-18-5): 231-791-2

Safety Data Sheet

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Fatal if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry cloth before flushing with water). If skin irritation occurs: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

Dispose of contents in accordance with local, state, federal and international regulations.

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

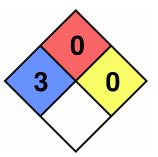
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

Health:	3
Flammability:	0
Reactivity:	0
Special Hazard:	





16.4. Document Revision

Last Revision Date: 2023-09-11

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.