

Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Sulfuric Acid, 1.8 Normal, with Catalyst

Product Number: R8308000

Other Identifying Product Numbers: R8308000-20E1, R8308000-20F

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

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 - 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
Corrosive to Metals	Category 1	H290	P234, P390, P406

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2.2. GHS Label Elements

Pictograms:





Signal Word: Danger

Hazard Statements:

Hazard Number	Hazard Statement
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.

Precautionary Statements:

Precautionary Number	Precautionary Statement
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.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P311	Call a POISON CENTER or physician.
P321	Specific treatment (Wash areas of contact with water. If possible, wipe off areas of contact with dry cloth
	before flushing with water).
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
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.

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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	H₂O	18.01 g/mol	7732-18-5	91.51
Sulfuric Acid	H ₂ SO ₄	98.07 g/mol	7664-93-9	8.49
Manganous Sulfate Monohydrate	MnSO ₄ ·H ₂ O	169.02 g/mol	10034-96-5	< 0.1

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. May cause irritation, redness, pain, and tearing.

Inhalation: IF INHALED: 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 slight irritation.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Dilute with water or milk. Do not induce vomiting. Call a physician if

necessary.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. Corrosive liquid. May irritate eyes and skin. Wash areas of contact with plenty of water for at least 15 minutes. If ingested, dilute with large quantity of water. Do not induce vomiting. Call a physician. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause slight irritation. CHRONIC EFFECTS / CARCINOGENICITY: May affect the skin, liver, kidneys and blood.

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. Call a physician if irritation develops. Remove fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Dry chemical, foam, or carbon dioxide. Water is acceptable to use on these solutions due to the weak concentrations of acid involved.

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5.2. Specific Hazards Arising from the Substance or Mixture

Contact with most metals causes formation of flammable and explosive hydrogen gas. However, the risk is reduced due to the weaker concentration of Sulfuric Acid present.

5.3. Special Protective Equipment for Firefighters

Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Cover the spill with Sodium Carbonate or a soda ash-slaked lime mixture (50:50). Mix and add water to form slurry. Decant the liquid to the drain with excess water. Treat the solid residue as normal refuse. Wash site with soda ash solution. Always dispose of in accordance with local regulations.

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. Do not mix with bases. Contact with water will generate heat.

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SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Manganous Sulfate Monohydrate	e (100; PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganous Sulfate Monohydrate	e (100; TLV-TWA	USA	"0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)" As Manganese inorganic compounds [RR-03861-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganous Sulfate Monohydrate	e (100(PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganous Sulfate Monohydrate	e (100: TLV-TWA	USA	"0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)" As Manganese inorganic compounds [RR-03861-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Manganous Sulfate Monohydrate	e (100(PEL-Ceiling	USA	5 mg/m³ Ceiling (as Mn)	U.S OSHA - Final PELs - Ceiling Limits
Manganous Sulfate Monohydrate	e (100(PEL-Ceiling	USA	"5 mg/m³ Ceiling (as Mn)" As Manganese compounds [RR-00602-0]	U.S OSHA - Final PELs - Ceiling Limits
Manganous Sulfate Monohydrate	e (100: TLV-TWA	USA	0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Manganous Sulfate Monohydrate (1000 PEL-Ceiling Manganous Sulfate Monohydrate (1000 PEL-Ceiling		USA	"0.02 mg/m³ TWA (respirable particulate matter, as Mn); 0.1 mg/m³ TWA (inhalable particulate matter, as Mn)" As Manganese inorganic compounds [RR-03861-9] "5 mg/m³ Ceiling (as Mn)" As Manganese compounds	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) U.S OSHA - Final PELs - Ceiling Limits
		USA	[RR-00602-0] "5 mg/m³ Ceiling (as Mn)" As Manganese compounds	U.S OSHA - Final PELs - Ceiling Limits
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	[RR-00602-0] "0.2 mg/m³ TWA (thoracic particulate matter)" As Sulfuric acid [7664-93-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Sulfuric Acid (7664-93-9)	TWA	USA	"1 mg/m³ TWA" As Sulfuric acid [7664-93-9]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	"0.2 mg/m³ TWA (thoracic particulate matter)" As Sulfuric acid [7664-93-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Sulfuric Acid (7664-93-9)	TWA	USA	"1 mg/m³ TWA" As Sulfuric acid [7664-93-9]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	"0.2 mg/m³ TWA (thoracic particulate matter)" As Sulfuric acid [7664-93-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Sulfuric Acid (7664-93-9)	TWA	USA	"1 mg/m³ TWA" As Sulfuric acid [7664-93-9]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	0.2 mg/m³ TWA (thoracic particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Sulfuric Acid (7664-93-9)	TWA	USA	1 mg/m³ TWA	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	"0.2 mg/m³ TWA (thoracic particulate matter)" As Sulfuric acid [7664-93-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Sulfuric Acid (7664-93-9)	TWA	USA	"1 mg/m³ TWA" As Sulfuric acid [7664-93-9]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)
Sulfuric Acid (7664-93-9)	TWA	USA	"1 mg/m³ TWA" As Sulfuric acid [7664-93-9]	U.S OSHA - Final PELs - Time Weighted Averages (TWAs)

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Sulfuric Acid (7664-93-9)	TLV-TWA	USA	"0.2 mg/m³ TWA (thoracic	ACGIH - Threshold Limit Values - Time
			particulate matter)" As	Weighted Averages (TLV-TWA)
			Sulfuric acid [7664-93-9]	
Sulfuric Acid (7664-93-9)	TWA	USA	"1 mg/m³ TWA" As Sulfuric	U.S OSHA - Final PELs - Time
			acid [7664-93-9]	Weighted Averages (TWAs)
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	"0.2 mg/m3 TWA (thoracic	ACGIH - Threshold Limit Values - Time
			particulate matter)" As	Weighted Averages (TLV-TWA)
			Sulfuric acid [7664-93-9]	
Sulfuric Acid (7664-93-9)	TWA	USA	"1 mg/m³ TWA" As Sulfuric	U.S OSHA - Final PELs - Time
			acid [7664-93-9]	Weighted Averages (TWAs)
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	"0.2 mg/m³ TWA (thoracic	ACGIH - Threshold Limit Values - Time
			particulate matter)" As	Weighted Averages (TLV-TWA)
			Sulfuric acid [7664-93-9]	

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: Normal room ventilation is adequate.

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. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

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SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: < 1

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Approximately 100°C - Approximately 100°C

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: 1.06

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. Organics, chlorates, carbides, fulminates, picrates, alkalines, reducing agents, nitrates, Acetic Acid, oxidizing agents, metals.

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10.4. Hazardous Decomposition Products

Will not occur.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

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: 2140 mg/kg (Sulfuric Acid), details of toxic effects not reported other than lethal dose value. LC50, Inhalation, Rat: (Sulfuric Acid) 510 mg/m3/2H, No toxic effect noted. LD50, Oral, Rat: 2150 mg/kg (Manganous Sulfate), behavioral 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. If possible, wipe off areas of contact with dry cloth before flushing with water). IF IN EYES: Rinse cautiously 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:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Not applicable.

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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

Not applicable.

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.

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SECTION 14: Transportation Information

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

Sizes: 20 L

UN Number: UN3264

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, n.o.s. (Sulphuric Acid)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



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

Sizes: 20 L

UN Number: UN3264

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, n.o.s. (Sulphuric Acid)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 20 L

UN Number: UN3264

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



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SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

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

Sulfuric Acid (CAS # 7664-93-9): "1000 lb EPCRA RQ" As Sulfuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): "1000 lb TPQ" As Sulfuric acid [7664-93-9]

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

Sulfuric Acid (CAS # 7664-93-9): "1000 lb final RQ

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

Sulfuric Acid (CAS # 7664-93-9): 454 kg final RQ

Sulfuric Acid (CAS # 7664-93-9): 454 kg final RQ" As Fuming sulfuric acid [8014-95-7]

Sulfuric Acid (CAS # 7664-93-9): 454 kg final RQ" As Sulfuric acid [7664-93-9]

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

Manganous Sulfate Monohydrate (CAS # 10034-96-5): "1.0 % de minimis concentration (includes any unique chemical substance that contains Manganese as part of that chemical's infrastructure, listed under Chemical Category N450)" As Manganese compounds [RR-00602-0]

Manganous Sulfate Monohydrate (CAS # 10034-96-5): 1.0 % de minimis concentration (includes any unique chemical substance that contains Manganese as part of that chemical's infrastructure, listed under Chemical Category N450)

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)" As Sulfuric acid [7664-93-9]

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

15.5. Massachusetts Right-to-Know Substance List

Sulfuric Acid (CAS # 7664-93-9):

"Present" As Sulfuric acid, mixture with sulfur trioxide [8014-95-7]

Sulfuric Acid (CAS # 7664-93-9): "Extraordinarily hazardous" As Sulfuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): Extraordinarily hazardous

Sulfuric Acid (CAS # 7664-93-9): Present

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15.6. Pennsylvania Right-to-Know Hazardous Substances

Manganous Sulfate Monohydrate (CAS # 10034-96-5): "Environmental hazard" As Manganese compounds [RR-00602-0]

Manganous Sulfate Monohydrate (CAS # 10034-96-5): Environmental hazard

Sulfuric Acid (CAS # 7664-93-9):

"Environmental hazard (listed under Sulfuric acid)" As Oleum [8014-95-7]

Sulfuric Acid (CAS # 7664-93-9): "Environmental hazard" As Sulfuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): Environmental hazard

Sulfuric Acid (CAS # 7664-93-9): Environmental hazard (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

Manganous Sulfate Monohydrate (CAS # 10034-96-5): "SN 2324 500 lb TPQ (Category Code N450. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Manganese compounds [RR-00602-0]

Manganous Sulfate Monohydrate (CAS # 10034-96-5): "sn 2324" As Manganese compounds [RR-00602-0]

Manganous Sulfate Monohydrate (CAS # 10034-96-5): sn 2324

Manganous Sulfate Monohydrate (CAS # 10034-96-5): SN 2324 500 lb TPQ (Category Code N450. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

Sulfuric Acid (CAS # 7664-93-9):

"carcinogen

Sulfuric Acid (CAS # 7664-93-9):

"sn 1762" As Sulfuric acid, fuming [8014-95-7]

Sulfuric Acid (CAS # 7664-93-9): "carcinogen

Sulfuric Acid (CAS # 7664-93-9): "SN 1761 500 lb TPQ" As Sulfuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): "sn 1761" As Sulfuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): carcinogen

Sulfuric Acid (CAS # 7664-93-9): corrosive

Sulfuric Acid (CAS # 7664-93-9): reactive - second degree

Sulfuric Acid (CAS # 7664-93-9): reactive - second degree" As Sulfuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): reactive - second degree" As Sulfuric acid, fuming [8014-95-7]

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

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

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

Manganous Sulfate Monohydrate (CAS # 10034-96-5): "Present" As Manganese(II) sulfate [7785-87-7] (DSL)

Manganous Sulfate Monohydrate (CAS # 10034-96-5): Present (DSL)

Sulfuric Acid (CAS # 7664-93-9): "Present" As Sulfuric acid [7664-93-9] (DSL)

Sulfuric Acid (CAS # 7664-93-9): Present (DSL)

Water (CAS # 7732-18-5): "Present" As Water [7732-18-5] (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.

Manganous Sulfate Monohydrate (CAS # 10034-96-5): "Present (ACTIVE)" As Sulfuric acid, manganese(2+) salt (1:1) [7785-87-7]

Manganous Sulfate Monohydrate (CAS # 10034-96-5): Present (ACTIVE)

Sulfuric Acid (CAS # 7664-93-9): "Present (ACTIVE)" As Sulfuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): Present (ACTIVE)

Water (CAS # 7732-18-5): "Present [XU] (ACTIVE)" As Water [7732-18-5]

Water (CAS # 7732-18-5): Present [XU] (ACTIVE)

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

Manganous Sulfate Monohydrate (CAS # 10034-96-5): "232-089-9" As Manganese sulphate [7785-87-7]

Manganous Sulfate Monohydrate (CAS # 10034-96-5): 232-089-9

Sulfuric Acid (CAS # 7664-93-9): "231-639-5" As Sulphuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): 231-639-5

Water (CAS # 7732-18-5): "231-791-2" As Water [7732-18-5]

Water (CAS # 7732-18-5): 231-791-2

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SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Causes severe skin burns and eye damage. Toxic if inhaled.

Keep only in original container. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. 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. 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. 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). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

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: 2
Flammability: 0
Reactivity: 0
Special Hazard:



16.4. Document Revision

Last Revision Date: 2025-04-02

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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.

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