

Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Light's Solution, Oxidation-Reduction Potential (ORP) Standard

Product Number: 4330

Other Identifying Product Numbers: 4330-1, 4330-16, 4330-32

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 Class	Category	Hazard 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	H ₂ O	18.01 g/mol	7732-18-5	82.68
Sulfuric Acid	H ₂ SO ₄	98.07 g/mol	7664-93-9	9.29
Ferric Ammonium Sulfate Dodecahydrate	NH ₄ Fe(SO ₄) ₂ ·12H ₂ O	482.19 g/mol	7783-83-7	4.42
Ferrous Ammonium Sulfate Hexahydrate	Fe(NH ₄) ₂ (SO ₄) ₂ ·6H ₂ O	405.00 g/mol	7783-85-9	3.60

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 irritation, redness, and pain.

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 irritation, redness, and pain.

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 if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.



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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use dry chemical, alcohol foam, or carbon dioxide for extinguishing the surrounding fire. Water may be ineffective in extinguishing flames but should be used to cool adjacent containers.

5.2. Specific Hazards Arising from the Substance or Mixture

Contact with most metals causes formation of flammable and explosive hydrogen gas.

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 unless there are regulations prohibiting this practice due to the iron content. 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
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	"0.2 mg/m ³ 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/m ³ 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/m ³ 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/m ³ 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/m ³ 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/m ³ 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/m ³ TWA (thoracic particulate matter)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Sulfuric Acid (7664-93-9)	TWA	USA	1 mg/m ³ TWA	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Sulfuric Acid (7664-93-9)	TLV-TWA	USA	"0.2 mg/m ³ 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/m ³ 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/m ³ 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/m ³ 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/m ³ 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/m ³ TWA (thoracic particulate matter)" As Sulfuric acid [7664-93-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Sulfuric Acid (7664-93-9)	TWA	USA	"1 mg/m ³ 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/m ³ TWA (thoracic particulate matter)" As Sulfuric acid [7664-93-9]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ferric Ammonium Sulfate Dodecahydrate	TLV-TWA	USA	"1 mg/m ³ TWA (as Fe)" As Iron salts, soluble [RR-00521-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ferric Ammonium Sulfate Dodecahydrate	TLV-TWA	USA	"1 mg/m ³ TWA (as Fe)" As Iron salts, soluble [RR-00521-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ferric Ammonium Sulfate Dodecahydrate	TLV-TWA	USA	1 mg/m ³ TWA (as Fe)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ferrous Ammonium Sulfate Hexahydrate	TLV-TWA	USA	"1 mg/m ³ TWA (as Fe)" As Iron salts, soluble [RR-00521-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ferrous Ammonium Sulfate Hexahydrate	TLV-TWA	USA	"1 mg/m ³ TWA (as Fe)" As Iron salts, soluble [RR-00521-0]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ferrous Ammonium Sulfate Hexahydrate	TLV-TWA	USA	1 mg/m ³ TWA (as Fe)	ACGIH - Threshold Limit Values - Time 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: 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: Light yellow liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: Approximately 0°C

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: 1.09

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), 3250 mg/kg (Ferrous Ammonium Sulfate Hexahydrate), details of toxic effects not reported other than lethal dose value. LC50, Inhalation, Rat: (Sulfuric Acid) 510 mg/m³/2H, No toxic effect 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: 1 L, 4 L, 500 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: III

Hazard Label(s):



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

Sizes: 1 L, 4 L, 500 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: III

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 1 L, 4 L, 500 mL

UN Number: UN3264

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

Hazard Class: 8

Packing Group: III

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; 454 kg final RQ" As Sulfuric acid [7664-93-9]

Sulfuric Acid (CAS # 7664-93-9): "1000 lb final RQ; 454 kg final RQ" As Sulfuric acid [7664-93-9];

"1000 lb final RQ; 454 kg final RQ" As Fuming sulfuric acid [8014-95-7]

Sulfuric Acid (CAS # 7664-93-9): 1000 lb final RQ; 454 kg final RQ

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "1000 lb final RQ; 454 kg final RQ" As Ferrous ammonium sulfate [10045-89-3]

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): 1000 lb final RQ; 454 kg final RQ

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

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)

Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]

15.5. Massachusetts Right-to-Know Substance List

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

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

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

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

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

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "Present" As Ferrous ammonium sulfate [10045-89-3]

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): Present

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15.6. Pennsylvania Right-to-Know Hazardous Substances

Sulfuric Acid (CAS # 7664-93-9): "Environmental hazard" As Sulfuric acid [7664-93-9]
Sulfuric Acid (CAS # 7664-93-9): "Environmental hazard" As Sulfuric acid [7664-93-9];
"Environmental hazard (listed under Sulfuric acid)" As Oleum [8014-95-7]
Sulfuric Acid (CAS # 7664-93-9): "Present" As Sulfuric acid [7664-93-9]
Sulfuric Acid (CAS # 7664-93-9): "Present" As Sulfuric acid [7664-93-9];
"Present (listed under Sulfuric acid)" As Oleum [8014-95-7]
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
Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): "Environmental hazard" As Iron salts [RR-04647-9]
Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): "Present" As Iron salts [RR-04647-9]
Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): Environmental hazard
Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): Present
Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "Environmental hazard" As Iron salts [RR-04647-9]
Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "Environmental hazard" As Sulfuric acid, ammonium iron(2+) salt (2:2:1) [10045-89-3];
"Environmental hazard" As Iron salts [RR-04647-9]
Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "Present" As Iron salts [RR-04647-9]
Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "Present" As Sulfuric acid, ammonium iron(2+) salt (2:2:1) [10045-89-3];
"Present" As Iron salts [RR-04647-9]
Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): Environmental hazard
Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): Present

15.7. New Jersey Worker and Community Right-to-Know Components

Sulfuric Acid (CAS # 7664-93-9): "carcinogen; corrosive; reactive - second degree" As Sulfuric acid [7664-93-9]
Sulfuric Acid (CAS # 7664-93-9): "carcinogen; corrosive; reactive - second degree" As Sulfuric acid [7664-93-9];
"carcinogen; corrosive; reactive - second degree" As Sulfuric acid, fuming [8014-95-7]
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): "sn 1761" As Sulfuric acid [7664-93-9];
"sn 1762" As Sulfuric acid, fuming [8014-95-7]
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
Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "sn 0928" As Ferrous ammonium sulfate [10045-89-3]
Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): sn 0928

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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

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

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)

Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): "Present" As Ferric ammonium sulfate [10138-04-2] (DSL)

Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): Present (DSL)

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "Present" As Ferrous ammonium sulfate [10045-89-3] (DSL)

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): 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.

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 (ACTIVE)" As Water [7732-18-5]

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

Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): "Present (ACTIVE)" As Sulfuric acid, ammonium iron(3+) salt (2:1:1) [10138-04-2]

Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): Present (ACTIVE)

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "Present (ACTIVE)" As Sulfuric acid, iron(2+) ammonium salt (2:1:2) [10045-89-3]

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): Present (ACTIVE)

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

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

Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): "233-382-4" As Ammonium iron bis(sulphate) [10138-04-2]

Ferric Ammonium Sulfate Dodecahydrate (CAS # 7783-83-7): 233-382-4

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): "233-151-8" As Diammonium iron(II) bis(sulphate) [10045-89-3]

Ferrous Ammonium Sulfate Hexahydrate (CAS # 7783-85-9): 233-151-8

Safety Data Sheet

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.

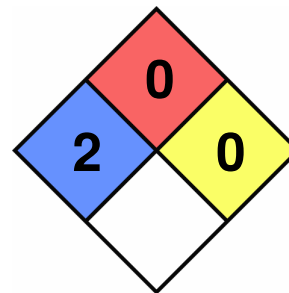
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

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: 2025-02-03

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.