

Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Perchloric Acid, 0.100 Normal (N/10) in Glacial Acetic Acid

Product Number: 5515

Other Identifying Product Numbers: 5515-1, 5515-16, 5515-32, 5515-4, 5515-5, 5515-5PT

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

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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
Flammable Liquids	Category 3	H226	P210, P233, P240, P241, P242, P243, P280, P303+P361+P353, P370+P378, P403+P235, P501

2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

Hazard Number	Hazard Statement
H226	Flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.

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Precautionary Statements:

Precautionary Number	Precautionary Statement
P210	Keep away from heat, sparks and open flame. No smoking.
P233	Keep container tightly closed.
P240	Ground container and receiving equipment.
P241	Use explosion-proof equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
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).
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
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.

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SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Acetic Acid	CH ₃ COOH	60.05 g/mol	64-19-7	96.18
Acetic Anhydride	(CH ₃ CO) ₂ O	102.08 g/mol	108-24-7	2.47
Perchloric Acid	HClO ₄	100.45 g/mol	7601-90-3	0.95
Water	H ₂ O	18.01 g/mol	7732-18-5	0.41

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. Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and irritation to eyes.

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 serious damage to the skin. Effects may include redness, pain, skin burns.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. Danger! Corrosive liquid. May be fatal if swallowed. Causes severe burns to all areas of contact. Harmful if inhaled. Inhalation may cause lung and tooth damage. Immediately wash areas of contact with plenty of water for at least 15 minutes. If ingested, give large quantity of water. Do not induce vomiting. EYE CONTACT: Eye contact may cause severe eye damage followed by loss of sight. Vapor exposure may cause watering and irritation to eyes. SKIN CONTACT: May cause serious damage to the skin. Effects may include redness, pain, skin burns. CHRONIC EFFECTS / CARCINOGENICITY: Repeated exposures may cause erosion of exposed front teeth, darkening of skin and chronic inflammation of the nose, throat and bronchial tubes.

4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact 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. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

In case of fire: Use dry chemical, foam or carbon dioxide to extinguish. Water spray, dry chemical, alcohol foam, carbon dioxide

5.2. Specific Hazards Arising from the Substance or Mixture

Flammable liquid and vapor. Combustible liquid. Combustion may produce irritants and toxic gases.

5.3. Special Protective Equipment for Firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, Teflon, Viton, or Saranex barrier recommended.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection.

6.2. Cleanup and Containment Methods and Materials

Use water spray to cool and disperse vapors, protect personnel, and dilute spills to form nonflammable mixtures. Use soda ash to neutralize spills. Control runoff and isolate discharged material for proper disposal.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Acetic Anhydride (108-24-7)	TLV-TWA	USA	1 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Acetic Anhydride (108-24-7)	TLV-STEL	USA	3 ppm STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Acetic Anhydride (108-24-7)	TWA	USA	5 ppm TWA; 20 mg/m ³ TWA	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Acetic Anhydride (108-24-7)	TLV-TWA	USA	"1 ppm TWA" As Acetic anhydride [108-24-7]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Acetic Anhydride (108-24-7)	TWA	USA	"5 ppm TWA; 20 mg/m ³ TWA" As Acetic anhydride [108-24-7]	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Acetic Anhydride (108-24-7)	TLV-STEL	USA	"3 ppm STEL" As Acetic anhydride [108-24-7]	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TLV-STEL	USA	"15 ppm STEL" As Acetic acid [64-19-7]	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TLV-TWA	USA	"10 ppm TWA" As Acetic acid [64-19-7]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Acetic Acid (64-19-7)	TWA	USA	"10 ppm TWA; 25 mg/m ³ TWA" As Acetic acid [64-19-7]	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Acetic Acid (64-19-7)	TWA	USA	10 ppm TWA; 25 mg/m ³ TWA	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Acetic Acid (64-19-7)	TLV-TWA	USA	10 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Acetic Acid (64-19-7)	TLV-STEL	USA	15 ppm STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TLV-TWA	USA	"10 ppm TWA" As Acetic acid [64-19-7]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Acetic Acid (64-19-7)	TLV-STEL	USA	"15 ppm STEL" As Acetic acid [64-19-7]	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TWA	USA	"10 ppm TWA; 25 mg/m ³ TWA" As Acetic acid [64-19-7]	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Acetic Acid (64-19-7)	TLV-TWA	USA	"10 ppm TWA" As Acetic acid [64-19-7]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)



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Acetic Acid (64-19-7)	TWA	USA	"10 ppm TWA; 25 mg/m ³ TWA" As Acetic acid [64-19-7]	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Acetic Acid (64-19-7)	TLV-STEL	USA	"15 ppm STEL" As Acetic acid [64-19-7]	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

8.2. Exposure Controls

Engineering Controls: Use only outdoors or in a well-ventilated area. A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

Respiratory Protection: Work with adequate ventilation or wear respirator with acid gas/organic vapor 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. Work with adequate ventilation or wear respirator with acid gas/organic vapor cartridge. 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 to light yellow liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: < 2

Melting/Freezing Point: Data not available.

Initial Boiling Point/Range: Approximately 118°C - Approximately 118°C

Flash Point: 39°C (Acetic Acid)

Evaporation Rate: 0.97 (butyl acetate = 1)

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.05

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. Acetic acid contracts slightly upon freezing which may cause the container to burst.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed. Strong bases, strong oxidizers, chromic acid, sodium peroxide, nitric acid, perchloric acid.

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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). 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 (Acetic Acid): 3310 mg/kg, (Acetic Anhydride) 1780 mg/kg, LD50, Dermal, Rabbit (Acetic Acid): 1.06 g/kg, details of toxic effects not reported other than lethal dose value; LC50, Inhalation, Mouse (Acetic Acid): 5620 ppm/1 hr., eye and blood effects noted; LD50, Oral, Rat (Perchloric Acid) 1100 mg/kg, behavioral, nutritional and respiratory 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 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, 2.5 L, 4 L, 20 L, 120 mL, 500 mL

UN Number: UN2789

Proper Shipping Name: Acetic Acid Solution

Hazard Class: 8 (3)

Packing Group: II

Hazard Label(s):



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

Sizes: 1 L, 2.5 L, 4 L, 20 L, 120 mL, 500 mL

UN Number: UN2789

Proper Shipping Name: Acetic Acid Solution

Hazard Class: 8 (3)

Packing Group: II

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 1 L, 2.5 L, 4 L, 20 L, 120 mL, 500 mL

UN Number: UN2789

Proper Shipping Name: ACETIC ACID SOLUTION

Hazard Class: 8 (3)

Packing Group: II

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

Not listed.

15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Acetic Anhydride (CAS # 108-24-7): "5000 lb final RQ

Acetic Anhydride (CAS # 108-24-7): 2270 kg final RQ

Acetic Anhydride (CAS # 108-24-7): 2270 kg final RQ" As Acetic anhydride [108-24-7]

Acetic Anhydride (CAS # 108-24-7): 5000 lb final RQ

Acetic Acid (CAS # 64-19-7): "5000 lb final RQ

Acetic Acid (CAS # 64-19-7): 2270 kg final RQ

Acetic Acid (CAS # 64-19-7): 2270 kg final RQ" As Acetic acid [64-19-7]

Acetic Acid (CAS # 64-19-7): 5000 lb final RQ

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

Not listed.

15.5. Massachusetts Right-to-Know Substance List

Acetic Anhydride (CAS # 108-24-7): "Present" As Acetic anhydride [108-24-7]

Acetic Anhydride (CAS # 108-24-7): Present

Acetic Acid (CAS # 64-19-7): "Present (including glacial)" As Acetic acid [64-19-7]

Acetic Acid (CAS # 64-19-7): Present (including glacial)

Perchloric Acid (CAS # 7601-90-3): "Present" As Perchloric acid [7601-90-3]

Perchloric Acid (CAS # 7601-90-3): Present

15.6. Pennsylvania Right-to-Know Hazardous Substances

Acetic Anhydride (CAS # 108-24-7): "Environmental hazard" As Acetic acid, anhydride [108-24-7]

Acetic Anhydride (CAS # 108-24-7): Environmental hazard

Acetic Acid (CAS # 64-19-7): "Environmental hazard

Acetic Acid (CAS # 64-19-7): "Environmental hazard (including water solutions)" As Acetic acid [64-19-7]

Acetic Acid (CAS # 64-19-7): Environmental hazard

Acetic Acid (CAS # 64-19-7): Environmental hazard (including water solutions)

Acetic Acid (CAS # 64-19-7): Environmental hazard (water solutions)

Acetic Acid (CAS # 64-19-7): Environmental hazard (water solutions)" As Acetic acid [64-19-7]

Perchloric Acid (CAS # 7601-90-3): "Present" As Perchloric acid [7601-90-3]

Perchloric Acid (CAS # 7601-90-3): Present

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

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

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

Acetic Anhydride (CAS # 108-24-7): "corrosive" As Acetic anhydride [108-24-7]
Acetic Anhydride (CAS # 108-24-7): "sn 0005" As Acetic anhydride [108-24-7]
Acetic Anhydride (CAS # 108-24-7): corrosive
Acetic Anhydride (CAS # 108-24-7): sn 0005
Acetic Acid (CAS # 64-19-7): "corrosive" As Acetic acid [64-19-7]
Acetic Acid (CAS # 64-19-7): "sn 0004" As Acetic acid [64-19-7]
Acetic Acid (CAS # 64-19-7): corrosive
Acetic Acid (CAS # 64-19-7): sn 0004
Perchloric Acid (CAS # 7601-90-3): "reactive - third degree" As Perchloric acid [7601-90-3]
Perchloric Acid (CAS # 7601-90-3): "sn 2637" As Perchloric acid [7601-90-3]
Perchloric Acid (CAS # 7601-90-3): reactive - third degree
Perchloric Acid (CAS # 7601-90-3): sn 2637

15.8. California Proposition 65

Not listed.

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

Acetic Anhydride (CAS # 108-24-7): "Present" As Acetic anhydride [108-24-7] (DSL)
Acetic Anhydride (CAS # 108-24-7): Present (DSL)
Acetic Acid (CAS # 64-19-7): "Present" As Acetic acid [64-19-7] (DSL)
Acetic Acid (CAS # 64-19-7): "Present" As Carboxylic acids, C1-5 [68937-68-8] (NDSL)
Acetic Acid (CAS # 64-19-7): Present (DSL)
Acetic Acid (CAS # 64-19-7): Present (NDSL)
Perchloric Acid (CAS # 7601-90-3): "Present" As Perchloric acid [7601-90-3] (DSL)
Perchloric Acid (CAS # 7601-90-3): 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.

Acetic Anhydride (CAS # 108-24-7): "Present (ACTIVE)" As Acetic acid, 1,1'-anhydride [108-24-7]
Acetic Anhydride (CAS # 108-24-7): Present (ACTIVE)
Acetic Acid (CAS # 64-19-7): "Present (ACTIVE)" As Acetic acid [64-19-7]
Acetic Acid (CAS # 64-19-7): Present (ACTIVE)
Perchloric Acid (CAS # 7601-90-3): "Present (ACTIVE)" As Perchloric acid [7601-90-3]
Perchloric Acid (CAS # 7601-90-3): Present (ACTIVE)
Water (CAS # 7732-18-5): "Present [XU] (ACTIVE)" As Water [7732-18-5]
Water (CAS # 7732-18-5): Present [XU] (ACTIVE)

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

Acetic Anhydride (CAS # 108-24-7): "203-564-8" As Acetic anhydride [108-24-7]

Acetic Anhydride (CAS # 108-24-7): 203-564-8

Acetic Acid (CAS # 64-19-7): "200-580-7" As Acetic acid [64-19-7]

Acetic Acid (CAS # 64-19-7): 200-580-7

Acetic Acid (CAS # 64-19-7): 273-079-4

Perchloric Acid (CAS # 7601-90-3): "231-512-4" As Perchloric acid [7601-90-3]

Perchloric Acid (CAS # 7601-90-3): 231-512-4

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

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

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

Flammable liquid and vapor. Causes severe skin burns and eye damage. Toxic if inhaled.

Keep away from heat, sparks and open flame. No smoking. Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. 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). Wash contaminated clothing before reuse. In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

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.

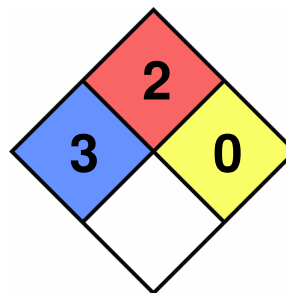
Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

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16.3. National Fire Protection Association (NFPA) Rating

Health: 3
Flammability: 2
Reactivity: 0
Special Hazard:



16.4. Document Revision

Last Revision Date: 2025-04-02

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.