

Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS)

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Dichloromethane, ACS Reagent Grade
(Methylene Chloride)

Product Number: RDCD0100

Other Identifying Product Numbers: RDCD0100-1C, RDCD0100-4C

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

After February 3, 2025, this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers. After January 28, 2026, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of methylene chloride equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant; (2) Processing for incorporation into a formulation, mixture, or reaction product; (3) Processing for repackaging; (4) Processing for recycling; (5) Industrial or commercial use as a laboratory chemical; (6) Industrial or commercial use as a bonding agent for solvent welding; (7) Industrial and commercial use as a paint and coating remover from safety critical, corrosion-sensitive components of aircraft and spacecraft; (8) Industrial and commercial use as a processing aid; (9) Industrial and commercial use for plastic and rubber products manufacturing; (10) Industrial and commercial use as a solvent that becomes part of a formulation or mixture, where that formulation or mixture will be used inside a manufacturing process, and the solvent (methylene chloride) will be reclaimed; (11) Industrial and commercial use in the refinishing for wooden furniture, decorative pieces, and architectural fixtures of artistic, cultural or historic value until May 8, 2029; (12) Industrial and commercial use in adhesives and sealants in aircraft, space vehicle, and turbine applications for structural and safety critical non-structural applications until May 8, 2029; (13) Disposal; and (14) Export.

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 - Oral	Category 4	H302	P264, P270, P301+P312, P330, P501
Skin Corrosion / Irritation	Category 2	H315	P264, P280, P302+P352, P321, P332+P313, P362
Eye Damage / Irritation	Category 2A	H319	P264, P280, P305+P351+P338, P337+P313
Carcinogenicity	Category 1B	H350	P201, P202, P280, P308+P313, P405, P501
Specific Target Organs/Systemic Toxicity Following Single Exposure	Category 3	H335, H336	P261, P271, P304+P340, P312, P403+P233, P405, P501

2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

Hazard Number	Hazard Statement
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.

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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.
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.
P280	Wear protective gloves and eye protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and 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.
P308+P313	IF exposed or concerned: Get medical attention.
P312	Call a POISON CENTER or physician if you feel unwell.
P321	Specific treatment (Wash areas of contact with water).
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical attention.
P337+P313	If eye irritation persists: Get medical attention.
P362	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Methylene Chloride	CH ₂ Cl ₂	84.93 g/mol	75-09-2	100.00

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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 with burning and stinging with possible damage to the cornea and conjunctiva.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. May cause irritation, redness and pain. Frequent or prolonged exposure may cause hypersensitivity leading to contact dermatitis.

Ingestion: IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

4.2. Most Important Symptoms and Effects, Acute and Delayed

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. Suspected carcinogen. Harmful if swallowed, inhaled or absorbed through skin. Do not pipet by mouth. If ingested, give large quantity of water. Call a physician. Wash areas of contact with plenty of water for 15 minutes. For eyes, get medical attention. Affects central nervous system, liver, cardiovascular system and blood. Causes irritation to eyes, skin and respiratory tract. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: May cause irritation, redness and pain. Frequent or prolonged exposure may cause hypersensitivity leading to contact dermatitis. CHRONIC EFFECTS / CARCINOGENICITY: Can cause headache, mental confusion, depression, liver effects, kidney effects, bronchitis, loss of appetite, nausea, lack of balance, and visual disturbances. Can cause dermatitis upon prolonged skin contact. Methylene chloride may cause cancer in humans.

4.3. Medical Attention or Special Treatment Needed

Specific treatment (Wash areas of contact with water).

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture

No flash point in conventional closed tester, but forms flammable vapor-air mixtures in larger volumes and may be an explosion hazard in a confined space. Combustion may produce irritants and toxic gases. Combustion by-products include hydrogen chloride and phosgene.

5.3. Special Protective Equipment for Firefighters

Wear full protective clothing and positive pressure self-contained breathing apparatus. Polyvinyl chloride barrier recommended.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

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6.2. Cleanup and Containment Methods and Materials

Stop or control the leak, if this can be done without undue risk. 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 physical damage. Keep in tightly closed containers in a cool, dry area.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Methylene Chloride (75-09-2)	TLV-TWA	USA	50 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Methylene Chloride (75-09-2)	TWA	USA	25 ppm TWA	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Methylene Chloride (75-09-2)	PEL-STEL	USA	125 ppm STEL (see 29 CFR 1910.1052)	U.S. - OSHA - Final PELs - Short Term Exposure Limits
Methylene Chloride (75-09-2)	PEL	USA	12.5 ppm Action Level (See 29 CFR 1910.1052); 25 ppm TWA; 125 ppm STEL (15 min)	U.S. - OSHA - Specifically Regulated Chemicals with PELs
Methylene Chloride (75-09-2)	PEL-STEL	USA	"125 ppm STEL (see 29 CFR 1910.1052)" As Methylene chloride [75-09-2]	U.S. - OSHA - Final PELs - Short Term Exposure Limits
Methylene Chloride (75-09-2)	TLV-TWA	USA	"50 ppm TWA" As Dichloromethane [75-09-2]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Methylene Chloride (75-09-2)	TWA	USA	"25 ppm TWA" As Methylene chloride [75-09-2]	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Methylene Chloride (75-09-2)	PEL	USA	"12.5 ppm Action Level (See 29 CFR 1910.1052); 25 ppm TWA; 125 ppm STEL (15 min)" As Methylene chloride [75-09-2]	U.S. - OSHA - Specifically Regulated Chemicals with PELs

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.



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Respiratory Protection: If the TLV is exceeded, a full-face chemical cartridge respirator may be worn up to 50 times the TLV or the maximum use concentration specified by the respirator supplier, whichever is less.

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. If the TLV is exceeded, a full-face chemical cartridge respirator may be worn up to 50 times the TLV or the maximum use concentration specified by the respirator supplier, whichever is less. Chemical resistant gloves. Safety glasses or goggles.

SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Penetrating, ether-like

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: -96.7°C

Initial Boiling Point/Range: 39.8°C - 39.8°C

Flash Point: Data not available.

Evaporation Rate: 27.5 (butyl acetate = 1)

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: 400 mmHg at 24°C

Vapor Density: 2.93

Relative Density: 1.33

Solubility: 200 G/L at 20°C

Partition Coefficient: 1.25

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.

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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

Strong oxidizers

10.4. Hazardous Decomposition Products

Will not occur.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federal and international regulations.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Not applicable.

Acute Toxicity - Other Information:

LD50, Oral, Rat: 1600 mg/kg, behavioral effects noted. Dichloromethane is investigated as a tumorigen, mutagen and reproductive effector. Dichloromethane has been linked to spontaneous abortions in humans.

Skin Corrosion and Irritation:

Causes skin irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

Serious Eye Damage and Irritation:

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. 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. If eye irritation persists: Get medical attention.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

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Germ Cell Mutagenicity:

Not applicable.

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:

Not applicable.

Specific Target Organ Toxicity from Single Exposure:

May cause respiratory irritation. May cause drowsiness or dizziness. 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 if you feel unwell. 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.

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

UN Number: UN1593

Proper Shipping Name: Dichloromethane

Hazard Class: 6.1

Packing Group: III

Hazard Label(s):



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

Sizes: 1 L, 4 L

UN Number: UN1593

Proper Shipping Name: Dichloromethane

Hazard Class: 6.1

Packing Group: III

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 1 L, 4 L

UN Number: UN1593

Proper Shipping Name: DICHLOROMETHANE

Hazard Class: 6.1

Packing Group: III

Hazard Label(s):



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SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Methylene Chloride (CAS # 75-09-2): "125 ppm STEL (See 29 CFR 1910.1052, 15 min)
Methylene Chloride (CAS # 75-09-2): 12.5 ppm Action Level (See 29 CFR 1910.1052)
Methylene Chloride (CAS # 75-09-2): 125 ppm STEL (See 29 CFR 1910.1052, 15 min)
Methylene Chloride (CAS # 75-09-2): 25 ppm TWA (See 29 CFR 1910.1052)
Methylene Chloride (CAS # 75-09-2): 25 ppm TWA (See 29 CFR 1910.1052)" As Methylene chloride [75-09-2]

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

Methylene Chloride (CAS # 75-09-2): "1000 lb final RQ
Methylene Chloride (CAS # 75-09-2): 1000 lb final RQ
Methylene Chloride (CAS # 75-09-2): 454 kg final RQ
Methylene Chloride (CAS # 75-09-2): 454 kg final RQ" As Dichloromethane [75-09-2]

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

Methylene Chloride (CAS # 75-09-2): "0.1 % de minimis concentration" As Dichloromethane [75-09-2]
Methylene Chloride (CAS # 75-09-2): 0.1 % de minimis concentration

15.5. Massachusetts Right-to-Know Substance List

Methylene Chloride (CAS # 75-09-2): "Carcinogen
Methylene Chloride (CAS # 75-09-2): Carcinogen
Methylene Chloride (CAS # 75-09-2): Extraordinarily hazardous
Methylene Chloride (CAS # 75-09-2): Extraordinarily hazardous" As Dichloromethane [75-09-2]

15.6. Pennsylvania Right-to-Know Hazardous Substances

Methylene Chloride (CAS # 75-09-2): "Environmental hazard
Methylene Chloride (CAS # 75-09-2): "Environmental hazard" As Methane, dichloro- [75-09-2]
Methylene Chloride (CAS # 75-09-2): "Special hazardous substance" As Methane, dichloro- [75-09-2]
Methylene Chloride (CAS # 75-09-2): Environmental hazard
Methylene Chloride (CAS # 75-09-2): Special hazardous substance
Methylene Chloride (CAS # 75-09-2): Special hazardous substance" As Methane, dichloro- [75-09-2]

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

Methylene Chloride (CAS # 75-09-2): "carcinogen"
Methylene Chloride (CAS # 75-09-2): "SN 1255 500 lb TPQ" As Dichloromethane [75-09-2]
Methylene Chloride (CAS # 75-09-2): "sn 1255" As Methylene chloride [75-09-2]
Methylene Chloride (CAS # 75-09-2): carcinogen
Methylene Chloride (CAS # 75-09-2): mutagen
Methylene Chloride (CAS # 75-09-2): mutagen" As Methylene chloride [75-09-2]
Methylene Chloride (CAS # 75-09-2): sn 1255
Methylene Chloride (CAS # 75-09-2): SN 1255 500 lb TPQ

15.8. California Proposition 65

Methylene Chloride (CAS # 75-09-2): "200 µg/day NSRL (inhalation)"
Methylene Chloride (CAS # 75-09-2): "carcinogen, 4/1/1988" As Dichloromethane [75-09-2]
Methylene Chloride (CAS # 75-09-2): 200 µg/day NSRL (inhalation)
Methylene Chloride (CAS # 75-09-2): 50 µg/day NSRL
Methylene Chloride (CAS # 75-09-2): 50 µg/day NSRL" As Dichloromethane [75-09-2]
Methylene Chloride (CAS # 75-09-2): carcinogen, 4/1/1988

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

Methylene Chloride (CAS # 75-09-2): "Present" As Methylene chloride [75-09-2] (DSL)
Methylene Chloride (CAS # 75-09-2): 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.

Methylene Chloride (CAS # 75-09-2): "Present [R] (ACTIVE)" As Methane, dichloro- [75-09-2]
Methylene Chloride (CAS # 75-09-2): Present [R] (ACTIVE)

After February 3, 2025, this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers. After January 28, 2026, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of methylene chloride equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant; (2) Processing for incorporation into a formulation, mixture, or reaction product; (3) Processing for repackaging; (4) Processing for recycling; (5) Industrial or commercial use as a laboratory chemical; (6) Industrial or commercial use as a bonding agent for solvent welding; (7) Industrial and commercial use as a paint and coating remover from safety critical, corrosion-sensitive components of aircraft and spacecraft; (8) Industrial and commercial use as a processing aid; (9) Industrial and commercial use for plastic and rubber products manufacturing; (10) Industrial and commercial use as a solvent that becomes part of a formulation or mixture, where that formulation or mixture will be used inside a manufacturing process, and the solvent (methylene chloride) will be reclaimed; (11) Industrial and commercial use in the refinishing for wooden furniture, decorative pieces, and architectural fixtures of artistic, cultural or historic value until May 8, 2029; (12) Industrial and commercial use in adhesives and sealants in aircraft, space vehicle, and turbine applications for structural and safety critical non-structural applications until May 8, 2029; (13) Disposal; and (14) Export.

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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)

Methylene Chloride (CAS # 75-09-2): "200-838-9" As Dichloromethane [75-09-2]

Methylene Chloride (CAS # 75-09-2): 200-838-9

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing 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. Wear protective gloves and eye protection.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and 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). Rinse mouth. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing and wash it before reuse.

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.

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

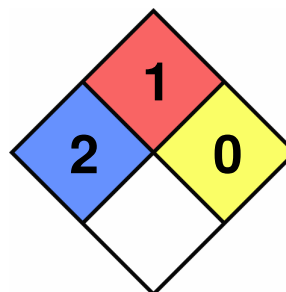
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

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: 1
Reactivity: 0
Special Hazard:





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16.4. Document Revision

Last Revision Date: 2025-04-01

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.