

Classified according to WHMIS 2015

#### **SECTION 1: Identification**

#### **1.1. Product Identifier**

Trade Name or Designation:

Ammonia ISE Fill Solution

Product Number: R3161200

Other Identifying Product Numbers: R3161200-120A, R3161200-1A, R3161200-500A

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

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

#### **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.

This product is not categorized as hazardous in any GHS hazard class.

#### 2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.



Hazard Statements: None Required.

Precautionary Statements: None Required.

#### 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 N	umber Weight%
Water	H <sub>2</sub> O	18.01 g/mol 7732-1	8-5 99.38
Ethylene Glycol	HOCH <sub>2</sub> CH <sub>2</sub> OH	62.06 g/mol 107-21	-1 0.55
Ammonium Chloride	NH₄CI	53.49 g/mol 12125-	02-9 < 0.1
Silver Chloride	AgCl	143.32 g/mol 7783-9	0-6 < 0.1

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

 Eye Contact:
 May cause slight irritation.

 Inhalation:
 Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

May cause mild irritation to the skin and eyes. Does not present any significant health hazards at this low concentration. May be harmful if ingested. Wash areas of contact with water. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation.

#### 4.3. Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. 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. 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 any means suitable for extinguishing surrounding fire.

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

#### 5.3. Special Protective Equipment for Firefighters

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

#### **SECTION 6: Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

#### 6.2. Cleanup and Containment Methods and Materials

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

#### **SECTION 7: Handling and Storage**

#### 7.1. Precautions for Safe Handling and Storage Conditions

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
Ethylene Glycol (107-21-1)	TLV-TWA	USA	25 ppm TWA (vapor fraction)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Ethylene Glycol (107-21-1)	TLV-STEL	USA	50 ppm STEL (vapor fraction); 10 mg/m <sup>3</sup> STEL (inhalable particulate matter, aerosol only)	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Ammonium Chloride (12125-02-9)	TLV-STEL	USA	20 mg/m <sup>3</sup> STEL (fume)	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Ammonium Chloride (12125-02-9)	TLV-TWA	USA	10 mg/m <sup>3</sup> TWA (fume)	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

#### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves.

Eye Protection: Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

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

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Appearance: Colorless liquid
                  Physical State: Liquid
                            Odor: Data not available.
                Odor Threshold: Data not available.
                               pH: Data not available.
        Melting/Freezing Point: 0.0°C
    Initial Boiling Point/Range: 100°C - 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: 1.02
                       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.
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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**

Sodium Hypochlorite, Potassium Chlorate, Potassium Nitrite, strong oxidizers.

#### **10.4. Hazardous Decomposition Products**

Will not occur.

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#### **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: Not applicable. Acute Toxicity - Other Information: LD50, Oral, Rat: (Ethylene Glycol) 4700 mg/kg, details of toxic effects not reported other than lethal dose value. Skin Corrosion and Irritation: Not applicable. Serious Eye Damage and Irritation: Not applicable. **Respiratory Sensitization:** Not applicable. Skin Sensitization: Not applicable. Germ Cell Mutagenicity: Not applicable. **Carcinogenicity:** Not applicable. **Reproductive Toxicity:** Not applicable. 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.

#### **SECTION 14: Transportation Information**

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

Not regulated according to DOT Regulations.



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

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

#### **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** Ethylene Glycol (CAS # 107-21-1): 5000 lb final RQ; 2270 kg final RQ Ammonium Chloride (CAS # 12125-02-9): 5000 lb final RQ; 2270 kg final RQ

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

Ethylene Glycol (CAS # 107-21-1): 1.0 % de minimis concentration

Ammonium Chloride (CAS # 12125-02-9): "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]

Ammonium Chloride (CAS # 12125-02-9): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing) Silver Chloride (CAS # 7783-90-6): "1.0 % de minimis concentration (includes any unique chemical substance that includes Silver as part of that chemical's infrastructure, listed under Chemical Category N740)" As Silver compounds [RR-00574-3]

Silver Chloride (CAS # 7783-90-6): 1.0 % de minimis concentration (includes any unique chemical substance that includes Silver as part of that chemical's infrastructure, listed under Chemical Category N740)

#### 15.5. Massachusetts Right-to-Know Substance List

Ethylene Glycol (CAS # 107-21-1): Present Ammonium Chloride (CAS # 12125-02-9): Present (including fume)

#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Ethylene Glycol (CAS # 107-21-1): Environmental hazard Ethylene Glycol (CAS # 107-21-1): Present Ammonium Chloride (CAS # 12125-02-9): Environmental hazard Ammonium Chloride (CAS # 12125-02-9): Present Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6] Water (CAS # 7732-18-5): Present Silver Chloride (CAS # 7783-90-6): "Environmental hazard" As Silver compounds [RR-00574-3] Silver Chloride (CAS # 7783-90-6): "Present" As Silver compounds [RR-00574-3] Silver Chloride (CAS # 7783-90-6): Environmental hazard Silver Chloride (CAS # 7783-90-6): Environmental hazard

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

Ethylene Glycol (CAS # 107-21-1): sn 0878 Ethylene Glycol (CAS # 107-21-1): SN 0878 500 lb TPQ Ammonium Chloride (CAS # 12125-02-9): sn 0093 Silver Chloride (CAS # 7783-90-6): "SN 3008 500 lb TPQ (Category Code N740. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Silver compounds [RR-00574-3] Silver Chloride (CAS # 7783-90-6): "sn 3008" As Silver compounds [RR-00574-3] Silver Chloride (CAS # 7783-90-6): sn 3008 Silver Chloride (CAS # 7783-90-6): sn 3008

Silver Chloride (CAS # 7783-90-6): SN 3008 500 lb TPQ (Category Code N740. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

#### 15.8. California Proposition 65

Ethylene Glycol (CAS # 107-21-1): developmental toxicity, 6/19/2015 (ingested)



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

Ethylene Glycol (CAS # 107-21-1): Present (DSL) Ethylene Glycol (CAS # 107-21-1): Present (NDSL) Ammonium Chloride (CAS # 12125-02-9): Present (DSL) Water (CAS # 7732-18-5): Present (DSL) Silver Chloride (CAS # 7783-90-6): 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.

Ethylene Glycol (CAS # 107-21-1): Present (ACTIVE) Ethylene Glycol (CAS # 107-21-1): Present [FRI; XU] (INACTIVE) Ethylene Glycol (CAS # 107-21-1): Present [PMN; XU] (ACTIVE) Ethylene Glycol (CAS # 107-21-1): Present [XU] (ACTIVE) Ammonium Chloride (CAS # 12125-02-9): Present (ACTIVE) Water (CAS # 7732-18-5): Present (ACTIVE) Silver Chloride (CAS # 7783-90-6): Present (ACTIVE)

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

Ethylene Glycol (CAS # 107-21-1): 203-473-3 Ammonium Chloride (CAS # 12125-02-9): 235-186-4 Water (CAS # 7732-18-5): 231-791-2 Silver Chloride (CAS # 7783-90-6): 232-033-3

#### **SECTION 16: Other Information**

#### 16.1. Full Text of Hazard Statements and Precautionary Statements

#### 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:1Flammability:0Reactivity:0Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2023-09-11

#### DISCLAIMER

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