



## Material Safety Data Sheet

Ammonium Ion Calibration Solutions

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### 1. Product Identification

**Synonyms:** 10 & 100ppm Ammonium Solution

**CAS No.:** Not applicable to mixtures.

**Molecular Weight:** Not applicable to mixtures.

**Chemical Formula:** Not applicable to mixtures.

**Product Codes:** ECD P/N 2010445, 2010446

**Manufacture By:** Electro-Chemical Devices, Inc.

1681 Kettering

Irvine, CA 92614

**Phone:** (800) 729-1333

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### 2. Hazards Identification

#### Emergency Overview

#### OSHA Hazards

No known OSHA hazards

Not a dangerous substance according to GHS.



#### NFPA Rating

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation

**Skin** May be harmful if absorbed through skin. May cause skin irritation

**Eyes** May cause eye irritation.

**Ingestion** May be harmful if swallowed.



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### 3. Composition/Information on Ingredients

| Ingredient        | CAS No     | Percent    | Hazardous |
|-------------------|------------|------------|-----------|
| -----             | -----      | -----      | -----     |
| Ammonium Chloride | 12125-02-9 | >0.1 % w/v | No        |
| Water             | 7732-18-5  | Balance    | No        |

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### 4. First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, flush eyes with plenty of water as a precaution

**Skin Contact:** Wash with soap and water

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

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### 5. Fire Fighting Measures

**Flammability of the Product:** Non-flammable

**Auto-ignition Temperature:** Not applicable

**Flash Points:** Not applicable

**Flammable Limits:** Not applicable

**Products of Combustion:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides

**Fire Hazards:** Not applicable

**Explosion Hazards:** Static Discharge: None

**Mechanical Impact:** None

**Fire Fighting Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Protective Clothing:** Wear self-contained breathing apparatus for firefighting if necessary

**Special Remarks:** None

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### 6. Accidental Release Measures



**Small Spill and Leak:** Wash up with water and dispose to sanitary drain.

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## 7. Handling and Storage

**Handling:** Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

**Storage:** Store in a cool, dry, well ventilated place. Store in a tightly closed container

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## 8. Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values.

### Personal protective equipment

#### Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

#### Hygiene measures

General industrial hygiene practice

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## 9. Physical and Chemical Properties

### Appearance:

Clear, colorless liquid

### Odor:



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Odorless.

**Solubility:**

Complete (100%)

**Specific Gravity:**

1.0 water = 1

**pH:**

neutral, pH 5-8

**% Volatiles by volume @ 21C (70F):**

NA

**Boiling Point:**

100°C

**Melting Point:**

No information found.

**Vapor Density (Air=1):**

Not applicable.

**Vapor Pressure (mm Hg):**

Not applicable.

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## 10. Stability and Reactivity

Chemical Stability: Product is stable

Conditions to Avoid: none

Incompatibilities with Other Materials: Strong bases, Strong oxidizing agents, Strong acids

Hazardous Decomposition Products: none

Hazardous Polymerization: Has not been reported

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## 11. Toxicological Information

**Acute toxicity**



## Oral LD50

no data available

## Inhalation LC50

no data available

## Dermal LD50

no data available

## Other information on acute toxicity

no data available

## Skin corrosion/irritation

no data available

## Serious eye damage/eye irritation

Eyes: no data available

## Respiratory or skin sensitization

no data available

## Germ cell mutagenicity

no data available

## Carcinogenicity

**IARC:** No component of this product, present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Toxicity to Reproductive System:** Not available

**Teratogenic Effects:** Not available

**Mutagenic Effects:** Not available

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## 12. Ecological Information



**Eco-toxicity:** No data available

**Environmental:** No information available

**Physical:** No information available.

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### 13. Disposal Considerations

Treatment: No special considerations, observe all Federal, State and local laws when disposing of this solution. Dispose of as unused product.

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### 14. Transport Information

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

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### 15. Regulatory Information

#### OSHA Hazards

No known OSHA hazards

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

No SARA Hazards

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act



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## **Pennsylvania Right To Know Components**

Ammonium Chloride Water

CAS-No. 12125-02-9 CAS-No. 7732-18-5

Revision Date

2007-03-01

## **New Jersey Right To Know Components**

Water

CAS-No. 7732-18-5

Revision Date

## **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. Other Information**

NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

### **Label Hazard Warning:**

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

### **Label Precautions:**

None.

### **Label First Aid:**

Not applicable.

### **Product Use:**

Laboratory Reagent.

### **Revision Information:**

MSDS-2010446 rev. B Feb. 2015

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