

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
 Product name : Ammonia Standard, 1000ppm  
 Product code : LC10900

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.

#### 1.3. Supplier

LabChem Inc  
 Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
 Zelienople, PA 16063 - USA  
 T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

Not classified as a hazardous chemical.

Other hazards not contributing to the classification : None.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name              | Product identifier   | %     | GHS-US classification     |
|-------------------|----------------------|-------|---------------------------|
| Water             | (CAS-No.) 7732-18-5  | 99.69 | Not classified            |
| Ammonium Chloride | (CAS-No.) 12125-02-9 | 0.31  | Acute Tox. 4 (Oral), H302 |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
 First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.  
 First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.  
 First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.  
 First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses.  
Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.  
Incompatible products : Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Ammonium Chloride (12125-02-9) |                                       |                                                                                                                   |
|--------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| ACGIH                          | ACGIH TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (Ammonium chloride fume; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH                          | ACGIH STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup> (Ammonium chloride fume; USA; Short time value; TLV - Adopted Value)                         |
| NIOSH                          | NIOSH REL (TWA) (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup>                                                                                              |
| NIOSH                          | NIOSH REL (STEL) (mg/m <sup>3</sup> ) | 20 mg/m <sup>3</sup>                                                                                              |
| Water (7732-18-5)              |                                       |                                                                                                                   |
| Not applicable                 |                                       |                                                                                                                   |

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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Safety glasses.



#### Hand protection:

Wear protective gloves

#### Eye protection:

Chemical goggles or safety glasses

#### Respiratory protection:

Respiratory protection not required in normal conditions

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                            |
|---------------------------------------------|----------------------------|
| Physical state                              | : Liquid                   |
| Appearance                                  | : Clear, colorless liquid. |
| Color                                       | : Colorless                |
| Odor                                        | : Odorless                 |
| Odor threshold                              | : No data available        |
| pH                                          | : 5 - 7                    |
| Melting point                               | : No data available        |
| Freezing point                              | : No data available        |
| Boiling point                               | : No data available        |
| Flash point                                 | : No data available        |
| Relative evaporation rate (butyl acetate=1) | : No data available        |
| Flammability (solid, gas)                   | : Non flammable.           |
| Vapor pressure                              | : No data available        |
| Relative vapor density at 20 °C             | : No data available        |
| Relative density                            | : No data available        |
| Specific gravity / density                  | : 1 g/ml                   |
| Solubility                                  | : Soluble in water.        |
| Log Pow                                     | : No data available        |
| Auto-ignition temperature                   | : No data available        |
| Decomposition temperature                   | : No data available        |
| Viscosity, kinematic                        | : No data available        |
| Viscosity, dynamic                          | : No data available        |
| Explosion limits                            | : No data available        |
| Explosive properties                        | : No data available        |
| Oxidizing properties                        | : No data available        |

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids.

#### 10.6. Hazardous decomposition products

Gaseous ammonia. Hydrogen chloride.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

Acute toxicity : Not classified

| Ammonium Chloride (12125-02-9) |                                    |
|--------------------------------|------------------------------------|
| LD50 oral rat                  | 1650 mg/kg (Rat; Literature study) |
| ATE US (oral)                  | 1650 mg/kg body weight             |

| Water (7732-18-5) |                         |
|-------------------|-------------------------|
| LD50 oral rat     | ≥ 90000 mg/kg           |
| ATE US (oral)     | 90000 mg/kg body weight |

Skin corrosion/irritation : Not classified  
pH: 5 - 7

Serious eye damage/irritation : Not classified  
pH: 5 - 7

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Toxicity

| Ammonium Chloride (12125-02-9) |                         |
|--------------------------------|-------------------------|
| EC50 Daphnia 1                 | 161 mg/l (EC50; 48 h)   |
| Threshold limit algae 2        | < 70 mg/l (EC50; 240 h) |

#### 12.2. Persistence and degradability

| Ammonia Standard, 1000ppm     |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

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| Ammonium Chloride (12125-02-9) |                                 |
|--------------------------------|---------------------------------|
| Persistence and degradability  | Readily biodegradable in water. |
| Water (7732-18-5)              |                                 |
| Persistence and degradability  | Not established.                |

### 12.3. Bioaccumulative potential

| Ammonia Standard, 1000ppm      |                                  |
|--------------------------------|----------------------------------|
| Bioaccumulative potential      | Not established.                 |
| Ammonium Chloride (12125-02-9) |                                  |
| Log Pow                        | -4.37 (Estimated value)          |
| Bioaccumulative potential      | Bioaccumulation: not applicable. |
| Water (7732-18-5)              |                                  |
| Bioaccumulative potential      | Not established.                 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

|                              |                                       |
|------------------------------|---------------------------------------|
| Effect on the global warming | : No known effects from this product. |
| GWPmix comment               | : No known effects from this product. |
| Other information            | : Avoid release to the environment.   |

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|                                |                                                                           |
|--------------------------------|---------------------------------------------------------------------------|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials      | : Avoid release to the environment.                                       |

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

| Ammonium Chloride (12125-02-9)                               |         |
|--------------------------------------------------------------|---------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 5000 lb |

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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### SECTION 16: Other information

Revision date : 09/29/2017

Other information : None.

Full text of H-phrases: see section 16:

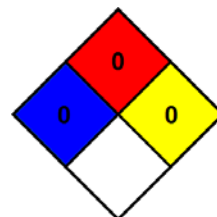
H302

Harmful if swallowed

NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



#### Hazard Rating

Health : 0 Minimal Hazard - No significant risk to health

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : A

A - Safety glasses

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