

# SAFETY DATA SHEET

## 1. Product and Company Identification

Product Name Ammonium chloride solution

Product Number NH3AS01

Product Use Calibration Solution for Ion Selective Electrode

Manufacturer Van London Company

Address 10540 Rockley Road, Houston, Texas 77099

Telephone 832-456-6641 Emergency Phone 832-456-6641

## 2. Hazards Identification

## **Emergency Overview**

#### **OSHA Hazards**

Acute aquatic toxicity (Category 3), H402 - Harmful to aquatic life.

Chronic aquatic toxicity (Category 3), H412 - Harmful to aquatic life with long lasting effects.

### **HMIS Classification**

Health Hazard: 0
Flammability: 0
Physical Hazards: 0

**NFPA Rating** 

Health Hazard: 0
Fire: 0
Reactivity Hazard: 0

**Potential Health Effects** 

Inhalation:No effects anticipatedSkin:No effects anticipatedEyes:No effects anticipatedIngestion:No effects anticipated

## 3. Composition/Information on Ingredients

ComponentCAS NumberWeight %Ammonium chloride12125-02-90.53Deionized water7732-18-599.47

## 4. First Aid Measures

**Eye** Flush eyes with plenty of water as a precaution.

**Skin** Wash off with soap and plenty of water.

**Inhalation** 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.

### 5. Fire Fighting Measures

Suitable

extinguishing

Use extinguishing measures that are appropriate to local circumstances and the surrounding

media

environment.

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**Hazardous** 

**combustion** Ammonia, Hydrogen chloride gas, nitrogen oxides (NOx).

products Special protective

equipment for

Wear self contained breathing apparatus for fire fighting if necessary.

firefighters

### 6. Accidental Release Measures

#### **Personal precautions**

Avoid breathing vapours, mist or gas. Ensure adequate centilation.

### **Environmental precautions**

Do not let product enter drains. Discharge into the environment must be avoided.

### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

Handling Avoid contact with eyes. Avoid inhalation of vapour or mist. Wash thoroughly after handling.Storage Keep container tightly closed and upright in a dry and well-ventilated place. Store at ambient

or lower temperature. Protect against physical damage.

## 8. Exposure Controls and Personal Protection

Exposure Limits Contains no substances with occupational exposure limit values

**Engineering** Maintain general industrial hygiene practices when using this product.

**Controls** 

**Personal** Respiratory Protection Repiratory protection not required. For nuisance exposures use type

**Protective** OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use

**Equipment** 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. Wash and dry hands after

handling.

**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

Impervious clothing.

**Hygiene measures** General industrial hygiene practice.

## 9. Physical and Chemical Properties

Appearance Clear, colorless liquid

**Odor** None

Odor Threshold No data available

pH 5.4 - 8.0 Freezing Point 0°C Boiling Point 100°C

Flash Point

Evaporation rate

No data available

No data available

No data available

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Lower explosion limit No data available **Upper explosion limit** No data available Vapor pressure No data available Soluble in water Solubility Vapor density No data available

**Relative density** 0.995 g/cm3 at 25°C (77°F)

**Partition coefficient:** 

n-octanol/water No data available **Auto-Ignition temperature** No data available **Decomposition temperature** No data available Density No data available Viscosity No data available

10. Stability and Reactivity

**Chemical Stability** Stable under recommended storage conditions.

**Possibility of Hazardous** 

reactions

No data available

Conditions to avoid No data available

Materials to avoid Strong acids, Strong bases, Strong oxidizing agents.

No data available

**Hazardous decomposition** 

products No data available

11. Toxicological Information

Signs and Symptoms of

To the best of our knowledge, the chemical, physical, and toxicological properties

have not been thoroughly investigated.

Overexposure

Acute **Eve Contact** 

**Effects** 

**Skin Contact** No data available

Inhalation No data available Ingestion No data available

**Germ Cell** 

Mutagenicity No data available

**Target Organ Effects** No data available **Chronic Effects** No data available **Medical Conditions** No data available

**Aggravated by Exposure** 

Acute Oral LD50 None reported **Toxicity** Inhalation LC50 None reported **Values Dermal LD50** None reported

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 potentil 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 arcinogen by NTP.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potentil carcinogen by OSHA.

**Reproductive Toxicity** No data available **Teratogenicity** No data available

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Specific target organ toxicity - No data available				
single exposure				
Specific target organ toxicity - No data available				
repeated exposure				
Aspiration Hazard		No data available		
Potential	Inhalation	No data available		
Health	Ingestion	No data available		
Effects	Skin	No data available		
	Eyes	No data available		
12. Ecological Information				
Toxicity		No data available		
Persistence & degradability		No data available		
Bioaccumulative potential		No data available		
Mobility in soil		No data available		
Other adverse effects		Harmful to aquatic life.		
13. Disposal Considerations				
Disposal me	ethod	Offer surplus and non-recyclable solutions to a licensed disposal company.		
Contaminated packaging		Dispose of as unused product.		
14. Transport Information				
DOT (US)		Not dangerous goods		
IMDG		Not dangerous goods		
IATA		Not dangerous goods		
15. Regulatory Information				
OSHA Hazards		No known OSHA hazards		
SARA 302 Components		No chemicals in this material are subject to the reporting requirements of SARA		
		Title III, Section 302.		
SARA 313 Components		The following components are subject to reporting levels established by SARA		
		Title III, Section 313:		
		Ammonium chloride	CAS-No.	Revision Date:
			12125-02-9	1994-04-01
SARA 311/3	12 Hazards	Acute Health Hazard		
Massachuse	etts Right To	Ammonium chloride	CAS-No.	Revision Date:
Know Components			12125-02-9	1994-04-01
Pennsylvania Right To Know Components				
			CAS-No.	Revision Date
Water			7732-18-5	
Ammonium chloride			12125-02-9	1994-04-01
New Jersey Right To Know Components				
			CAS-No.	Revision Date
Water			7732-18-5	
Ammonium chloride			12125-02-9	1994-04-01
California Prop. 65 Components				

#### Cambrilla Frop. 05 Components

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

## 16. Other Information

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#### Disclaimer

The information contained herein is accurate to the best of our knowledge, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Van London pHoenix Company makes no warranty of any kind, expressed, or implied, concerning the safe use of this material in your process or in combination with other substances. Van London pHoenix Company shall not be held liable for any damage resulting from handling or from contact with the above product.

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