



SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Potassium nitrate solution, 1M
Product Number	R001015, CPS-5
Product Use	Reference Fill Solution for Ion Selective Electrodes
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
Chronic aquatic toxicity (Category 3), H412

HMIS Classification

Health Hazard: 1
Flammability: 0
Physical Hazards: 1

NFPA Rating

Health Hazard: 1
Fire: 0
Reactivity Hazard: 1

Potential Health Effects

Inhalation: No effects anticipated
Skin: No effects anticipated
Eyes: No effects anticipated
Ingestion: No effects anticipated

3. Composition/Information on Ingredients

Component	CAS Number	Weight %
Potassium nitrate	7757-79-1	10
Deionized water	7732-18-5	90

4. First Aid Measures

Eye Flush eyes with plenty of water for 15 minutes. Consult a physician.
Skin Wash off with soap and plenty of water.
Inhalation Move person into fresh air. If not breathing, give artificial respiration.
Ingestion Induce vomiting immediately after giving two glasses of water.

5. Fire Fighting Measures

Suitable

extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products No data available.

Special protective equipment for firefighters Wear self contained breathing apparatus.

6. Accidental Release Measures

Personal precautions

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

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. 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 Controls Maintain general industrial hygiene practices when using this product.

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. 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 5.5 - 8.0

Freezing Point -4°C

Boiling Point 104°C

Flash Point No data available

Evaporation rate No data available

Flammability No data available

Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	No data available
Solubility	Soluble in water
Vapor density	No data available
Relative density	1.000 g/cm ³
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	Avoid contact with heat, sparks, flames, or other sources of ignition.
Materials to avoid	Strong oxidizing agents, reducing agents, finely powdered metals, acids.
Hazardous decomposition products	Nitrogen oxides

11. Toxicological Information

Signs and Symptoms of Overexposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
Acute Effects	Eye Contact	Moderately irritating to eyes.
	Skin Contact	Moderately irritating to the skin
	Inhalation	Irritating to the respiratory system
	Ingestion	No known significant effects or critical hazards
	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 Toxicity Values	Oral LD50	3540 mg/kg Rat
	Inhalation LC50	None reported
	Dermal LD50	None reported
Carcinogenicity	IARC	2A - Group 2A: Probably carcinogenic to humans (Potassium nitrate)
	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.
Reproductive Toxicity	No data available	
Teratogenicity	No data available	

**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 method	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	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	Chronic Health Hazard
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components	

	CAS-No.	Revision Date
Water	7732-18-5	
Potassium nitrate	7757-79-1	

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Water	7732-18-5	
Potassium nitrate	7757-79-1	

California Prop. 65 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

Issuing Date	12/16/2015
Revision No.	1.1

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.