

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Sodium nitrate solution, 5M
Product Number	27503-51
Product Use	Calibration Solution, Ionic Strength Adjustor 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



Signal Word: Warning

Hazard Statement: H319 Causes serious eye irritation.

Precautionary statements: Keep out of reach of children. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Emergency Overview

OSHA Hazards

May cause eye and skin irritation

May cause respiratory and digestive tract irritation

HMIS Classification

Health Hazard: 2

Flammability: 0

Physical Hazards: 0

NFPA Rating

Health Hazard: 2

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: No data available

Skin: No data available

Eyes: No data available

Ingestion: No data available

3. Composition/Information on Ingredients

Component	CAS Number	Weight %
Sodium nitrate	7631-99-4	42.5
Deionized water	7732-18-5	57.5

4. First Aid Measures

Eye	Flush eyes with plenty of water for 15 minutes minimum. 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	Never give anything by mouth to an unconscious person. Give victim water to drink to dilute the product. Consult a physician immediately.

5. Fire Fighting Measures

Suitable extinguishing media	Use water spray or carbon dioxide. Do not use dry chemicals on this material.
Hazardous combustion products	No data available
Special protective equipment for firefighters	Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental Release Measures

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

Environmental precautions
None

Methods and materials for containment and cleaning up
Soak up with inert absorbent material (such as sand or vermiculite) and collect 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	Safety glasses with side-shields conforming to EN166. 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
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Appearance	Clear, colorless liquid
Odor	None
Odor Threshold	No data available
pH	5.5 - 7.5
Freezing Point	-4°C
Boiling Point	100°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	1.100 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
Molecular mass	425 g/mol

10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous reactions	No data available
Conditions to avoid	Heating to dryness
Materials to avoid	Strong reducing agents
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	No data available
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 Toxicity Values	
Oral LD50	913 mg/kg rat
Inhalation LC50	No data available
Dermal LD50	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.
Reproductive Toxicity		No data available
Teratogenicity		No data available
Specific target organ toxicity - single exposure		No data available
Specific target organ toxicity - repeated exposure		No data available
Aspiration Hazard		No data available
Potential Health Effects	Inhalation	No data available
	Ingestion	No data available
	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	No data available

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)	Proper Shipping Name: Nitrates, inorganic, aqueous solution, n.o.s., UN# 3218, Class 5.1, PG III
IATA	Proper Shipping Name: Nitrates, inorganic, aqueous solution, n.o.s., IATA UN# 3218, Class 5.1, PG III

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	Acute Health Hazard, Chronic Health Hazard
Massachusetts Right To Know Components	

	CAS-No.	Revision Date
Sodium nitrate	7631-99-4	

Pennsylvania Right To Know Components	CAS-No.	Revision Date
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Water 7732-18-5
Sodium nitrate 7631-99-4

New Jersey Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Sodium nitrate	7631-99-4	

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 10/22/2015

Revision No. 1.0

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 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 Company shall not be held liable for any damage resulting from handling or from contact with the above product.