



Van London Co.

"When Accuracy Matters"

SAFETY DATA SHEET

1. Product and Company Identification

Product Name	Galvanic Oxygen Electrolyte solution
Product Number	R001069
Product Use	Filling Solution for Dissolved Oxygen 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(s)

H302	Harmful if swallowed.
H373	May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Precautionary Statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301 + P312 + P330	If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.
P314	Get medical attention if you feel unwell.
P501	Dispose of contents/container to an approved waste disposal plant.

Emergency Overview

GHS Classification

Acute toxicity, Oral (Category 4), H302

Specific target organ toxicity - repeated exposure, Oral (Category 2), Kidney, H373

HMIS Classification

Health Hazard:	1
Flammability:	1
Physical Hazards:	0

NFPA Rating

Health Hazard:	1
Fire:	1
Reactivity Hazard:	0

Potential Health Effects

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

3. Composition/Information on Ingredients

Component	CAS Number	Weight %
Sodium hydroxide	1310-73-2	2
Ethylene Glycol	107-21-1	65
Deionized water	7732-18-5	33

4. First Aid Measures

Eye Flush eyes with plenty of water. 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. Rinse mouth with water.

5. Fire Fighting Measures

Suitable

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

media

Hazardous

combustion Carbon oxides.

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 ventilation.

Environmental precautions

Do not let product enter drains.

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

Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
	107-21-1	C	100 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen.				

Derived No Effect Level (DNEL)

Application Area	Exposure Routes	Health effect	Value
Workers	Inhalation	Long-term local effects	35 mg/m ³
Workers	Skin Contact	Long-term systemic effects	106 mg/kg BW/d

Consumers	Inhalation	Long-term local effects	7 mg/m ³
Consumers	Skin Contact	Long-term systemic effects	53 mg/kg BW/d

Predicted No Effect Concentration (PNEC)

Compartment	Value
Soil	1.53 mg/kg
Marine water	1 mg/L
Fresh water	10 mg/L
Marine sediment	3.7 mg/kg
Fresh water sediment	37 mg/kg
Sewage treatment plant	199.5 mg/L
Aquatic intermittent release	10 mg/L

Engineering Maintain general industrial hygiene practices when using this product.

Controls

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

Appearance	Clear, colorless liquid
Odor	None
Odor Threshold	No data available
pH	No data available
Freezing Point	-50°C
Boiling Point	140°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	2.14
Relative density	No data available
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 oxidizing agents, strong bases, Aldehydes, Aluminum
Hazardous decomposition products	No data available

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	Mild irritation - 24 h (Rabbit)
Skin Contact	No skin irritation (Rabbit)
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	4,700 mg/kg (Rat)
Inhalation LC50	None reported
Dermal LD50	10,626 mg/kg (Rabbit)
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	Overexposure may cause reproductive disorder(s) based on tests with lab
Teratogenicity	Laboratory experiments have shown teratogenic effects.
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	Oral - May cause damage to organs through prolonged or repeated exposure. - Kidney
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**

Toxicity to Fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 48 h NOEC - Pimephales promelas (fathead minnow) - 32,000 mg/l - 7 d NOEC - Pimephales promelas (fathead minnow) - 39,140 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 74,000 mg/l - 24 h NOEC - Daphnia (water flea) - 24,000 mg/l - 48 h LC50 - Daphnia magna (Water flea) - 41,000 mg/l - 48 h
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)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

15. Regulatory Information

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:

	CAS-No.	Revision Date
Ethylene glycol	107-21-1	7/1/2007

SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Ethylene glycol	107-21-1	2007-07-01
Sodium hydroxide	1310-73-2	

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Ethylene glycol	107-21-1	2007-07-01
Sodium hydroxide	1310-73-2	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Ethylene glycol	107-21-1	2007-07-01
Sodium hydroxide	1310-73-2	

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 3/11/2016

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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.