

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Ammonium chloride solution, 0.1M **Product Number** 477394
Product Use Calibration Solution for Ion Selective Electrode
Company OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, Phone: (979) 690-1711, Fax: (979) 690-0440

Emergency No. 1-800-424-9300 (Chemtrec). Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

Section 2. Hazards Identification

Pictogram(s)



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

Chronic Health Hazard:

Flammability: 0

Physical Hazards: 0

Potential Health Effects

Inhalation: No effects anticipated

Skin: No effects anticipated

Eyes: No effects anticipated

Ingestion: No effects anticipated

Section 3. Composition/Information on Ingredients

Component	CAS Number	Weight %
Ammonium chloride	12125-02-9	0.53
Deionized water	7732-18-5	99.47

Section 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. Rise mouth with water.

Section 5. Fire-fighting Measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous combustion products	Ammonia, Hydrogen chloride gas, nitrogen oxides (NOx).
Special protective equipment for firefighters	Wear self contained breathing apparatus for fire fighting if necessary.

Section 6. Accidental Release Measures

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

Section 7. Handling and Storage

Handling	Avoid contact with eyes. Avoid inhalation of vapor 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.

Section 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.

Section 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	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	0.995 g/cm ³ 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
Molecular mass	53.49 g/mol

Section 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.
Hazardous decomposition products	No data available

Section 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	None reported
	Inhalation LC50	None reported
	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 potential carcinogen by ACGIH.
	NTP	No component of this product present at levels greater than or equal to 0.1% is identified as 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

Section 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.

Section 13. Disposal Considerations

Disposal method	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

Section 14. Transport Information

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

Section 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. :12125-02-9 Revision Date: 1994-04-01
SARA 311/312 Hazards	Acute Health Hazard	
Massachusetts Right to Know Components	Ammonium chloride	CAS No.: 122125-02-9 Revision Date: 1994-04-01
Pennsylvania Right to Know Components	Water	CAS No. 7732-18-5
	Ammonium chloride	CAS No. 12125-02-9 Revision Date 1994-04-01
New Jersey Right to Know Components	Water	CAS No. 7732-18-5
	Ammonium chloride	CAS No. 12125-02-9 Revision Date: 1994-04-01

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

Section 16. Other Information

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For R&D use only. Not for drug, household, or other uses.

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