

MATERIAL SAFETY DATA SHEET

(513) 860-4949

MSDS No.: LL0133
Effective Date: January 12, 2007

SECTION I

NAME

24 HOUR EMERGENCY ASSISTANCE

Product	Lead Nitrate, 0.1 Molar Solution
Chemical Synonyms	Lead Nitrate, Water Solution
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	Mixture.



CHEMTREC 800-424-9300 Day 585-226-6177		Health	2
		Fire	0
		Reactivity	1
NFPA		HMIS *	
HAZARD RATING			
MINIMAL	SLIGHT	MODERATE	SERIOUS
0	1	2	3
			SEVERE
			4

SECTION II

INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Lead nitrate: (CAS No. 10099-74-8)	3.31%	See Section V.
Water: (CAS No. 7732-18-5)	96.69%	None established.
WARNING!		

MAY BE HARMFUL IF SWALLOWED. MAY CAUSE SKIN AND EYE IRRITATION.

SECTION III

PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	96.69%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	Slightly less than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, water white liquid; no odor.		

SECTION IV

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

SECTION V

HEALTH HAZARD DATA

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Threshold Limited Value	None established for Lead Nitrate. (ACGIH 2001). TWA for Lead [CAS No. 7439-92-1], inorganic dust and fumes, as Pb 0.05 mg/m ³ .
Effects of Overexposure	Suspect cancer hazard. All lead compounds may cause cancer. Lead is a cumulative poison and exposure to even small amounts can raise the body's content to toxic levels. Nitrates entering the body by any route (ingestion, inhalation or absorption), can cause headache, vomiting, dizziness, cyanosis, decreased blood pressure and possible respiratory paralysis. Acute poisoning can lead to muscle weakness, "lead line" on the gums, metallic taste, definite loss of appetite, insomnia, dizziness, high lead levels in the blood and urine with shock, coma and death in extreme cases. Risk of cancer depends on level and duration of exposure. Target organs: Blood and central nervous system.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI

REACTIVITY DATA

Stability	Unstable Stable	Conditions to Avoid	Excessive temperature to cause evaporation.
	X		
Incompatibility (Materials to Avoid)	Ammonium thiocyanate, powdered carbon, lead hypophosphite.		

Hazardous Decomposition Products

Thermal decomposition or burning may produce toxic oxides of lead and nitrogen.

Hazardous Polymerization

Conditions to Avoid

May Occur	Will Not Occur	Not applicable.
	X	

SECTION VII

SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Absorb spill in an inert dry material, sweep up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in an approved chemical landfill or contract with a licensed waste disposal agency.

SECTION VIII

SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.			
Ventilation	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety goggles.
Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves.			

SECTION IX

SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool place. Wash thoroughly after handling.

Keep container tightly closed when not in use.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Do not take internally. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Revision No. 9	Date 01/12/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20