

Camlab Limited – Material Safety Data Sheet

1. Identification


Product Code CC/1198-EH

Product Name **LEAD NITRATE pure**

Molecular Formula **Pb(NO₃)₂ =331.21**

CAS Number 10099-74-8

Supplier: **CAMLAB LIMITED**

 **Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE**

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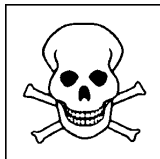
Fax 01954 233101

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24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Lead compounds	6080-56-4		99.0%	O T N : R61,R33,R40,R48/22,R50/53, R62	WEL

3. Hazards Identification



May cause harm to the unborn child. Harmful by inhalation and if swallowed. Danger of cumulative effects. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Possible risk of impaired fertility.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical attention even if patient is not complaining of discomfort.

Ingestion If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with finely divided combustible materials can react explosively.

Extinguishing Media Water spray.

Unsuitable Media Nothing specified.

6. Accidental Release Measures

Personal Protection	Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus. Only re-enter area with full protective clothing and breathing apparatus.
Environmental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
Major Spillage	Shovel/sweep up into container for removal Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.
Storage Conditions	Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

8.1 Workplace Exposure Limits

Component	CAS No	Workplace Exposure Limits				Maximum Exposure Limits			
		Long Term		Short Term		Long Term		Short Term	
		ppm	mg m ⁻³	ppm	mg m ⁻³	ppm	mg m ⁻³	ppm	mg m ⁻³
Lead compounds	6080-56-4	-	0.0500	-	-	-	-	-	-

8.2 Personal Protection

Respiratory	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hands	Wear gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	White translucent crystals.
Odour	No specific odour.
pH	3 (20% solution)
Boiling point	0.0 °C
Melting point	470.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	Yes.
Vapour Pressure	Not available
Relative Density	4.5300 °C
Water Solubility	53%

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Avoid contact with acids or combustible materials.
Materials to Avoid	Acids : reacts to form poisonous nitrous fumes. Combustible materials.
Hazardous Decomposition Products	Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

11. Toxicological Information

Eyes	Contact with the solid or dust may be irritating to the eyes but unlikely to cause serious injury.
Skin	Unlikely to be an irritant on brief or occasional exposure.
LD50 Skin	Not available
Ingest	Moderately toxic by ingestion.
LD50 Ingest	Not available
Inhalation	Inhalation of the dust may cause ultra structural changes to the lungs and effect the central nervous system.
Carcinogenicity	No conclusive evaluation of its carcinogenic properties has been made.
Mutagenicity	Significant increases in chromosome aberrations have been reported.
Reproductive Effects	No information is available.
Other Information	Chronic lead poisoning may occur from dust inhalation. Anaemia and other blood effects are the most common. Early symptoms of poisoning include fatigue, headache, sleep disturbances, aching bones and muscles, gastrointestinal disturbances and reduced appetite. Large doses affect the central nervous system causing severe headaches, convulsions, coma, kidney damage and death.

12. Ecological

Lead salts are harmful to the environment.

13. Disposal Considerations

Disposal Methods	Dispose of to a licensed land fill site.
Contaminated Packaging	Use a licensed waste disposer.

14. Transport Information

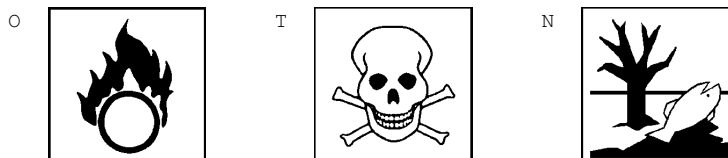
Proper Shipping Name	Lead Nitrate
UN Number	1469
UN Classification	5.1 Oxidising agent
Subsidiary Risk	6.1 Toxic
Flash Point	Not available
Packing Group	II
Transport Category	2
Marine pollutant	Yes
ADR Hazard ID	56



15. Regulatory Information

Labelling	Oxidising, Toxic, Dangerous for the Environment.
Classification	

Label Symbols



Risk & safety Phrases	May cause harm to the unborn child. Harmful by inhalation and if swallowed. Danger of cumulative effects. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Possible risk of impaired fertility. Avoid exposure - obtain special instruction before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label). This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment, refer to special instructions/safety data sheet.
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EEC Number	233-245-9
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16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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