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MATERIAL SAFETY DATA SHEET (MSDS)

LEAD IODIDE LR

1 - Chemical Product

Product Name: Lead (II) Iodide
 Synonym: None

Cas no: 10101-63-0

Product Coad: L0119500100

Molecular Formula: Pbl₂
 Molecular Weight: 461.009

2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
10101-63-0	Lead iodide	100	233-256-9

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation. May cause effects similar to those described for ingestion.

Chronic: Chronic exposure to lead may result in plumbism which is characterized by lead line in gum, headache, muscle weakness, mental changes.

4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Antidote: The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel. The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.

5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool place in the original container and protect from sunlight. Keep from contact with oxidizing materials.

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits CAS# 10101-63-0: United Kingdom, WEL - TWA: (listed as lead compounds): 0.15 mg/m³ (as Pb) United Kingdom, WEL - STEL: (listed as lead compounds): 0.45 mg/m TWA (as Pb) United States OSHA: 50 g/m³ TWA (as Pb); 30 g/m³ Action Level (Pb. Poison - see 29 CFR 1910.10 25) (listed under Lead, inorganic compounds).

Belgium - TWA: (listed as lead, inorganic compounds): 0.15 mg/m³ (dust and fume) France - VME: (listed as lead compounds): 0.1 mg/m³ VME (as Pb)

Germany: (listed as lead compounds): 0.1 mg/m³ VME (as Pb) Japan: (listed as lead compounds): 0.1 mg/m³ OEL (except alkyl le compounds, as Pb)

Malaysia: (listed as lead, inorganic compounds): 0.05 mg/m³ TWA (Pb) Netherlands: (listed as lead, inorganic compounds): 0.15 mg/m³ MA (dust and

smoke, as Pb) Russia: (listed as lead, inorganic compounds): 0.5 mg/m³ TWA (as Spain: (listed as lead, inorganic compounds): 0.15 mg/m³ VLA-ED (

Pb) Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:Wear appropriate protective gloves and clothing to prevent skin exposure.

Clothing:Wear appropriate protective clothing to prevent skin exposure.

Respirators:Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: yellow

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not applicable.

Boiling Point: 954 deg C

Freezing/Melting Point: 402 deg C

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: Slightly soluble in cold water

Specific Gravity/Density: Not available.

Molecular Formula: Pbl₂

Molecular Weight: 461.009

10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Light, strong oxidants.

Incompatibilities with Other Materials:

Strong oxidizers.

Hazardous Decomposition Products:

Hydrogen iodide, lead/lead oxides.

Hazardous Polymerization: Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 10101-63-0 unlisted.

LD50/LC50:

Not available.

Carcinogenicity:

Lead iodide - California: carcinogen, initial date 10/1/92 (listed as Lead compounds NTP: Suspect carcinogen (listed as Lead compounds).

IARC: Group 2A carcinogen (listed as Lead, inorganic compounds).

12 - ECOLOGICAL INFORMATION

Other No information available.

13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be

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decontaminated before returning for recycling.

14 - TRANSPORT INFORMATION

IATA
Shipping Name: TOXIC SOLID, INORGANIC, NOS(Lead iodide)
Hazard Class: 6.1
UN Number: 3288
Packing Group: III
IMO
Shipping Name: TOXIC SOLID, INORGANIC, NOS(Lead iodide)
Hazard Class: 6.1
UN Number: 3288
Packing Group: III
RID/ADR
Shipping Name: TOXIC SOLID, INORGANIC, NOS(Lead iodide)
Hazard Class: 6.1
UN Number: 3288
Packing group: III
USA RQ: CAS# 10101-63-0: 10 lb final RQ; 4.54 kg final RQ

15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: T N
Risk Phrases:
R 61 May cause harm to the unborn child.
R 20/22 Harmful by inhalation and if swallowed.
R 33 Danger of cumulative effects.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 62 Possible risk of impaired fertility.
Safety Phrases:
S 53 Avoid exposure - obtain special instructions before use.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 60 This material and its container must be disposed of as hazardous waste.
S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
WGK (Water Danger/Protection)
CAS# 10101-63-0: No information available.
Canada
CAS# 10101-63-0 is listed on Canada's NDSL List.
CAS# 10101-63-0 is not listed on Canada's Ingredient Disclosure List.
US FEDERAL
TSCA
CAS# 10101-63-0 is listed on the TSCA inventory.

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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