

Safety Data Sheet

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1. Product and Company Identification

Trade Name:
Chemical Formula:
Recommended Use:
Supplier:
Street:
City:
State:
Zip Code:
Country:
Tel #:

Lead Pb Lubrication ESR Technology Ltd 202 Cavendish Place, Birchwood Park Warrington Cheshire WA3 6FU UK + 44 (0)1925 843400

2. Hazards Identification



Precautionary Statements:

Hazard Statements:

Danger

H302+H332: Harmful if swallowed or if inhaled H360: May damage fertility or the unborn child H373: May cause damage to organs through prolonged or repeated exposure

P260: Do not breathe dust/fume/gas/mist/vapours/spray P281: Use personal protective equipment as required P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):	Powder	Bulk
Health: Flammability:	2 0	1 0
Physical:	1	0

3. Composition

Chemical Family: Additional Names: Lead (Pb): Percentage: CAS #: EC #:

None 100 wt% 7439-92-1

231-100-4

Metal

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	4. First Aid Procedures	
General Treatment: Special Treatment: Important Symptoms: Inhalation: Ingestion: Skin: Eyes:	Seek medical attention if symptoms persist. None None Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention. Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing	
5. Firefighting Measures		
Flammability: Extinguishing Media:	Non-flammable Do not use water for metal fires – use CO2, sand, extinguishing powder.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.	
6.	Accidental Release Measures	
If Material Is Released/Spilled: Environmental Precautions:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.	
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.	





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8. Exposure Controls and Personal Protection

0.05 mg/m3 as Pb, long-term value
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None
Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment
tested and approved under appropriate government standards.
Nitrile rubber, NBR 0.11mm thick.
Safety glasses or goggles
Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics

Colour:	Grey/black
Form:	Powder, Sputtering coating, Custom parts
Odour:	Odourless
Water Solubility: Insoluble	Water Solubility: Insoluble
Boiling Point: 1749 °C	Boiling Point: 1749 °C
Melting Point: 327.5 °C	Melting Point: 327.5 °C
Flash Point: N/A	Flash Point: N/A
Autoignition Temperature: N/A	Autoignition Temperature: N/A
Density: 11.34 g/cc	Density: 11.34 g/cc
Molecular weight: 207.2 g/mol	Molecular weight: 207.2 g/mol
Molecular weight: 207.2 g/mol	Molecular weight: 207.2 g/mol

10. Reactivity

Stability:
Reacts With:
Incompatible Conditions:
Hazardous Decomposition
Products:

Stable under recommended storage conditions Oxidizing agents None Lead oxide fume





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11. Toxicological Information

Potential Health Effects:	May cause irritation	
Eyes: Skin:	May cause irritation May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity	
	data for this substance.	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions: Median Lethal Dose:	N/A N/A	
Carcinogen:	ACGIH A3: Animal carcinogen: Agent is	
Caroniogoni	carcinogenic in experimental animals at a relatively	
	high dose, by routes of administration, at sites, of	
	histologic types, or by mechanisms not considered relevant to worker exposure. Available epidemiologic	
	studies do not confirm an increased risk of cancer in	
	exposed humans. Available evidence suggests that	
	the agent is not likely to cause cancer in humans	
	except under uncommon or unlikely routes or level of exposure.	
	NTP-R: Reasonably anticipated to be a carcinogen,	
	limited evidence of carcinogenicity from	
	epidemiologic studies.	
	EPA-B2: Probable human carcinogen, sufficient evidence from animal studies; inadequate evidence	
	or no data from epidemiologic studies.	
	IARC-2B: Possibly carcinogenic to humans: limited	
	evidence in human in the absence of sufficient evidence in experimental animals.	
	12. Ecological Information	
Aquatic Toxicity:	Aquatic Toxicity: High	
Persistent Bioaccumulation	No	
Toxicity:		
Very Persistent, Very Bioaccumulative:	No	
Notes:	Very toxic for aquatic organism.	
	May cause long lasting harmful effect on aquatic life.	
	Do not allow material to be released to the environment without proper governmental permits.	
	Do not allow product to reach any water sources.	
	Danger to drinking water if even extremely small	
	quantities leak into the ground.	
	Also poisonous for fish and plankton in water bodies. Avoid transfer into the environment.	
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13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data Hazardous as powder only. Hazardous: Hazard Class: 9 Miscellaneous dangerous substances and articles Packing Group: ш UN Number: UN3077 **Proper Shipping Name:** Environmentally hazardous substances, solid, n.o.s. (Lead powder) 15. Regulatory Information Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes 16. References and Data Sources GEN-ESTL/0073/18 Input Safety Data Sheet 17. Revision History First issue of document 18. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfil his obligations regarding the use of hazardous products.

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