

## LTS Research Laboratories, Inc. Safety Data Sheet Lead

## Trade Name: Chemical Formula: Recommended Use:

Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #:

24-Hour Emergency Contact:

## 1. Product and Company Identification

Lead Pb Scientific research and development

LTS Research Laboratories, Inc. 2001 Oaks Pkwy Belmont North Carolina 28012 USA 855-587-2436 / 855-lts-chem

800-424-9300 (US & Canada) +1-703-527-3887 (International)



## 2. Hazards Identification

2. Hazards Identified	ation	
Danger		
$\wedge$	<b>∧</b>	
H350: May cause can		
H372: Causes damage to organs through prolonged or repeated		
exposure		
H410: Very toxic to a	aquatic life with long lasting effects	
P202: Do not handle until all safety precautions have been read and understood		
P260: Do not breathe dust/fume/gas/mist/vapors/spray		
P263: Avoid contact during pregnancy/ while nursing P264: Wash face, hands and any exposed skin thoroughly after		
handling	ites and any exposed skin thoroughly after	
P270: Do not eat, drin	nk or smoke when using this product	
P280: Wear protective gloves/ protective clothing/ eye protection/ face		
P281: Use personal protective equipment as required		
P304+P340: IF INHALED: Remove victim to fresh air and keep at res		
in a position comfortable for breathing P308 + P313: IF exposed or concerned: Get medical advice/ attention		
P405: Store locked up		
P501: Dispose of contents/container in accordance with		
local/regional/nationa	al/international regulations	
Powder	Bulk	
2	1	
0	0 0	
3. Composition		
Metal		
None		
100 wt.%		
231-100-4		
	Danger Danger	

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention.
Ingestion: Skin:	Wash affected area with mild soap and water. Remove any
Skiii.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	Do not use water for metal fires – use CO <sub>2</sub> , 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:	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.
Environmental Precautions:	Take care not to raise dust.
Environmental Flecautions.	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	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.
	Exposure Controls and Personal Protection
Permissible Exposure Limits:	0.05 mg/m <sup>3</sup> as Pb, long-term value
Threshold Limit Value:	$0.05 \text{ mg/m}^3$ as Pb, long-term value
Special Equipment:	None
Respiratory Protection:	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.
Protective Gloves:	Nitrile rubber, NBR 0.11mm thick.
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long
	sleeves/pants.

9. Physical and Chemical Characteristics		
Color	Grey/black	
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	1740 °C	
Melting Point:	327.4 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	11.34 g/cc	
Molecular weight:	207.2 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts with:	Strong acids, Ammonium nitrate: fertilizers capable of self-sustaining	
	decomposition, Peroxides, Fluorine, Nitric acid	
Incompatible Conditions:	Exposure to air	
Hazardous Decomposition Products:	Lead, lead oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	Harmful if swallowed	
Inhalation:	Harmful if inhaled	
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:	N/A	
Median Lethal Dose:	LD50 Oral- >2000 mg/kg for rat by mouth	
Carcinogen:	ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental	
	animals at a relatively high dose, by routes of administration, at sites, o	
	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.	
	IARC-2B: Possibly carcinogenic to humans: limited evidence in human	
	in the absence of sufficient evidence in experimental animals.	
	USHA: USHA specifically regulated carcinogen (Lead)	
	OSHA: OSHA specifically regulated carcinogen (Lead)	

	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	Very toxic to aquatic life with long lasting effects No No 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.

13. Disposal Considerations

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

14. Transportation Data	
Hazardous as powder only.	
9 Miscellaneous dangerous substances and articles	
III toratorias. Inc.	
UN3077	
Environmentally hazardous substances, solid, n.o.s. (Lead powder)	
15. Regulatory Information	
No	
10 lbs (4.54 kg) (powder less than 100 microns only)	
Yes	
16. 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 fulfill his obligations regarding the use of hazardous products.

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