LEAD OXIDE

SAFETY DATA SHEET

DATE OF LAST REVISION: 06/29/15

Section 1: Identification

Product Name: Lead

Company: Angstrom Sciences, Inc.

40 South Linden Street Duquesne, PA 15110

For more information call: 412-469-8466

(Monday - Friday 9:00-5:00 EST)

Section 2: HAZARD IDENTIFICATION
Signal Word: Danger







Hazard Statements: 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

posure

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spracy

P221: Take any precaution to avoid mixing with combustibles

P304 + P340: If inhaled: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P210: Keep away from heat/sparks/open flames/hot surfaces - No

smoking

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical 2

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Section 3: Composition/Information on Ingredients

Chemical characterization: Ceramic

Additional Names: Lead (II, IV) oxide, Lead teroxide

Percentage: 100 wt%

CAS# Description: 1314-41-6

EC number: 215-235-6

Section 4: FIRST AID MEASURES

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None **Important Symptoms:** None

Eye Contact: Flush eyes with water, blinking often for several minutes. Remove contact lenses if

present and easy to do. Continue rinsing.

Skin Contact: Wash affected area with mild soap and water. Remove any contaminated clothing. **Inhalation:**Remove to fresh air. If required, give artificial respiration. Seek medical advice.

Ingestion:Seek medical attention.

Section 5: FIRE FIGHTING MEASURES

Flammability: Non-Flammable

Special 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.

Extinguishing Media: Do not use water for metal fires - use CO2, sand, extinguishing powder.

Section 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: Isolate runoff to prevent environmental pollution.

Section 7: HANDLING AND STORAGE

Handling Precautions for safe handling: Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities 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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Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Permissible Exposure Limits: 0.05 Mg/M³ as Pb, long-term value **Threshold Limit Value:** 0.05 Mg/m³ 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 airpurifying respirators are appropriate. Only use equipment tested and approved

under appropriate government standards.

Protective Gloves: Nitrile rubber, NBR 0.11 mm thick

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long sleeves/pants.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Powder Color: Red Odor: Odorless Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** ca 500 °C Flash Point: N/A Autoignition Temperature: N/A Density: 9.1 g/cc Molecular Weight: 685.60 g/mol

Section 10: STABILITY AND REACTIVITY

Reactivity: Acids, Oxidizing agents

Chemical Stability: Stable under recommended storage conditions

Incompatible Conditions: None

Hazardous Decomposition Products: Lead oxide fume

Section 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:
Eyes: May cause irritation

Skin: 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.

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Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: N/A

Carcinogen: ACGIH A3: Animal carcinogen: Agent is 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-2A: Probably carcinogenic to humans: limited evidence in human in the absence of sufficient evidence in

experimental animals.

Section 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: High

Persistence Bioaccumulation Toxicity: No 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.

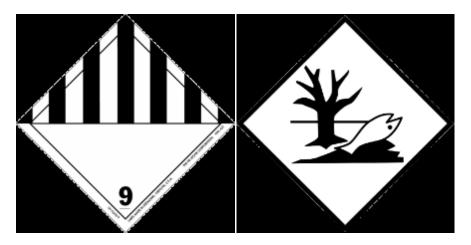
Section 13: DISPOSAL CONSIDERATIONS

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

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Section 14: TRANSPORT INFORMATION

Hazardous: Hazardous as powder only



Hazard Class: 9 Miscellaneous dangerous substances and articles

Packing Group:

UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substances, solid,n.o.s. (Lead oxide)

Section 15: REGULATORY INFORMATION

Sec 302 Extremely Hazardous: No
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: Yes

Section 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.