FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 436.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Lead Dioxide

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Section 2 — Composition, Information on Ingredients

Lead Dioxide

Synonyms: lead oxide, brown

CAS#: 1309-60-0

Section 3 — Hazards Identification

Brown, hexagonal crystals. Odorless.

Moderately toxic by inhalation and ingestion. Toxic as lead dust or lead fume.

Severe eye, skin and mucous membrane irritant. Avoid all body contact. Possible carcinogen. Chronic exposure to inorganic lead via inhalation or ingestion can result in accumulation in and damage to the soft tissues and bones.

FLINN AT-A-GLANCE

Health-2 Flammability-0 Reactivity-3 Exposure-2 Storage-1

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Rinse out mouth, give 1 to 2 cups of water or milk, induce vomiting. After vomiting, give mixture of 2 Tbs. of activated charcoal mixed with one cup of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable solid.

NFPA CODE

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE

and SCBA with full facepiece operated in positive pressure mode.

Strong oxidizer, may be a fire risk when exposed to combustible materials. None Established When heated to decomposition, emits toxic fumes of Pb.

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates. Store in a cool dry place. Store in a Flinn Chem-Saf bag. Use and dispense in a hood.

Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 0.15 mg/m3 (Pb) (ACGIH)

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Section 9 — Physical and Chemical Properties

Brown, hexagonal crystals. Odorless.

Solubility: Soluble in glacial acetic acid. Insoluble in water

and alcohol. Formula: PbO2

Formula Weight: 239.19

Specific Gravity: 9.375 Melting Point: 290 C (dec.)

ORL-RAT LD50: N.A.

IHL-RAT LC50: N.A.

SKN-RBT LD50: N.A.

Section 10 — Stability and Reactivity

Avoid contact with strong reducers, finely powdered metals, exposure to heat.

Shelf Life: Indefinite.

<u>Section 11 — Toxicological Information</u>

Acute effects: Harmful dust; irritant Chronic effects: Reproductive hazard

Target organs: Nerves, blood, kidneys, male/female reproductive

systems

N.A. = Not available, not all health aspects of this substance have been fully investigated.

Section 12 — Ecological Information

Data not yet available.

Section 13 — Disposal Considerations

Please consult with state and local regulations. Flinn Suggested Disposal Method #27d is one option.

Section 14 — Transport Information

Shipping Name: Lead dioxide Hazard Class: 5.1, Oxidizer UN Number: UN1872 N/A = Not applicable

Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (215-174-5), RCRA code D008.

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

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Improve Student Lab Results--Use Flinn Chemicals

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