



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lead (II) Zirconium Oxide**
PRODUCT NUMBER: 2308
CAS NUMBER: 12060-01-4
SYNONYMS: Lead zirconate, Lead zirconium trioxide

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



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 the reproductive system, the blood, the brain, and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral and Inhalative. |

Precautionary Phrases

| | |
|-----------|--|
| P202 | DO not handle until all safety precautions have been read and understood. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |

HMIS CLASSIFICATION:

Health: 2 Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: May cause slight to mild irritation of the eyes.

SKIN CONTACT: May cause damage to the respiratory system.

INHALATION: Harmful if inhaled.

INGESTION: Harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: PbZrO₃

Molecular Weight: 346.38

| CHEMICAL NAME | CAS# | % |
|----------------------|------------|-----|
| Lead Zirconium Oxide | 12060-01-4 | 100 |

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with soap and plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Zirconium oxides and lead oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid breathing dust. Avoid dust formation.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dusts.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

| Component | Exposure Limits | Basis | Entity |
|----------------------|----------------------|-------|--------|
| Lead Zirconium Oxide | 5 mg/m ³ | TWA | OSHA |
| | 5 mg/m ³ | TWA | ACGIH |
| | 10 mg/m ³ | STEL | ACGIH |

TWA: Time Weighted Average over 8 hours of work.

STEL: Short Term Exposure Limit during x minutes.

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Light yellow solid

ODOR: None

MOLECULAR WEIGHT: 346.38

BOILING POINT: No data available

MELTING POINT: No data available

SPECIFIC GRAVITY: 7 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSITION PRODUCTS: Zirconium oxides and lead oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Not available

CARCINOGENIC EFFECTS: Possible human carcinogen

MUTAGENIC EFFECTS: Not available

TETRAOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Not available

RTECS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

DOT: UN3077
Environmentally hazardous substances, solid, n.o.s.
(Lead zirconium oxide)
CLASS 9
PG III

IATA: UN3077
Environmentally hazardous substance, solid, n.o.s.
(Lead zirconium oxide)
CLASS 9
PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

SARA 302/304: Not Listed

SARA 311/312: Acute Health Hazard, Chronic Health Hazard

SARA (TITLE 313): Not listed

CALIFORNIA PROP. 65: Lead Zirconium Oxide

SECTION 15 REGULATORY INFORMATION (Cont.)

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Lead Zirconium Oxide

NEW JERSEY RIGHT TO KNOW COMPONENTS: Lead Zirconium Oxide

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Lead Zirconium Oxide

SECTION 16 OTHER INFORMATION

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SDS DEPT.