

Material Safety Data Sheet

Identity: Lead Titanate

Formula: PbTiO₃

SECTION I - GENERAL INFORMATION

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and we assume no liability resulting from its use.

SECTION II - PRODUCT INFORMATION/HAZARDOUS INGREDIENTS

CAS #	%	OSHA/PEL	ACGIH/TLV	Other Limits
12060-00-3	100	.05mg(Pb)/m ³	.15mg(Pb)/m ³	N/E

SECTION III - PHYSICAL/ CHEMICAL CHARACTERISTICS

Boiling Point: N/A Melting Point: N/A
% Volatile: N/A Solubility in Water: Insoluble
Specific Gravity: 7.52 gm/c Evaporation Rate: N/A
Vapor Density: N/A Vapor Pressure: N/A
Appearance and Odor: Yellow powder and pieces, odorless
Physical State: Solid

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point: NA

Means of Extinction: Fire fighters must wear full face breathing apparatus and clothes to prevent contact with skin and eyes. Fumes from fire are hazardous.

Unusual Fire and Explosion Hazards: When heated to decomposition, lead may emit toxic fumes of lead.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid - Instability:

Incompatibility - Materials to avoid: None

Hazardous Decomposition Products: Fumes of Lead

Hazardous Polymerization: Will not occur.

SECTION VI - HEALTH HAZARD DATA

Routes of Exposure:

Inhalation:

Acute: DANGER-POISON, may cause irritation to the upper respiratory system.

Chronic: May cause chronic lead toxicity. May be toxic to the central nervous system.

Emergency: Remove victim to fresh air, give oxygen, seek medical attention.

Ingestion:

Acute: DANGER-POISON, may cause constipation, abdominal pain, tremors, nausea.

Chronic: May cause anemia, gingival lead line, and permanent neurological injury.

Emergency: Give 1-2 glasses of milk and induce vomiting, seek medical attention.

Skin:

Acute: May cause irritation.

Chronic: None known.

Emergency Procedures: Remove contaminated clothing, flood skin with water. If irritation persists, seek medical attention.

Eyes:

Acute: May cause irritation.

Chronic: None known.

Emergency Procedures: Flush eyes and under eyelids with large amounts of water for at least 15 minutes. Call a physician.

SECTION VII – ENVIRONMENTAL INFORMATION

Spill and Leak Procedures: Wear protective equipment. Isolate spill area and provide ventilation. Vacuum up spill, and place in closed container. Take care not to raise dust. Waste

Disposal Method: Dispose of in accordance with local, state, and federal regulations.

Hazard Label Information: Keep container tightly closed. Store in cool, well-ventilated area. Wash thoroughly after use.

Protective Equipment: Impervious gloves, NIOSH approved safety goggles. Respiratory Protection: Select according to OSHA 29 CFR 1910.1025(f) (2) table II Ventilation: local exhaust, to maintain concentration at or below the TLV, PEL Work/Hygienic/Maintenance Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels

Please be advised that N/A can either mean Not Applicable or No Data has been established.
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