

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

CHEMICAL NAME: Lead Zirconate Titanate Polymer
CATALOG NUMBER: PZT 9103
TSCA: not listed in TSCA inventory
CHEMICAL FAMILY: Polymeric metal organic oxoalkoxides

HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS: %		
Title compound	70-80	ACGIH(TLV): No data OSHA/PEL: No data
Iso-propanol	30-20	ACGIH(TLV): 400ppm OSHA/PEL: 400ppm

PHYSICAL DATA

APPEARANCE AND ODOR: viscous liquid; brown
MELTING POINT: No data **BOILING POINT:** No data
VAPOR PRESSURE: No data **SPECIFIC GRAVITY:** No data
SOLUBILITY IN WATER: Hydrolyzes in water slowly

FIRE HAZARD

FLASH POINT: Not applicable
AUTOIGNITION TEMPERATURE: No data
EXTINGUISHING MEDIA: Combustible. Use carbon dioxide or dry chemical extinguishing agents. Water may be used to keep fire exposed containers cool.
SPECIAL FIRE FIGHTING PROCEDURES: Combustible. If involved in a fire or heated to high temperatures the material may burn. Burning material may release toxic and corrosive fumes. Use normal fire fighting procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame, and chemical resistant clothing; hats, boots, and gloves. Leave the area unless fitted with a self-contained breathing apparatus and fire protective clothing..
UNUSUAL FIRE OR EXPLOSION HAZARDS: Combustible. No unusual fire or explosion hazards.

HEALTH HAZARD

MODE OF ENTRY:
 INHALATION: No
 SKIN CONTACT: Yes
 EYE CONTACT: Yes
 INGESTION: Yes
CARCINOGENICITY:
 NTP: Not known
 IARC: Not known
 OSHA: Not known

EFFECTS OF OVEREXPOSURE: No specific information on toxicity or effects of overexposure. Lead compounds: a cumulative poison. Of the various lead compounds, the carbonate, the monoxide, and sulfate are more toxic than others. Acute tox data: intraperitoneal lowest published lethal dose for a rat is 430mg/kg for PbO.

EMERGENCY AND FIRST AID PROCEDURES:

SKIN CONTACT: Dissolve with hexane and wash the affected area with soap and water for at least 15 minutes.

EYE CONTACT: Seek immediate medical attention.

INGESTION: Seek immediate medical attention.

-----**REACTIVITY DATA**-----

STABILITY: Stable.

CONDITIONS TO AVOID: Contact with ignition source or heat.

INCOMPATIBILITY: Hydrolyzes in water

HAZARDOUS DECOMPOSITION PRODUCTS: Lead oxide, Zirconium oxide, Titanium oxide, CO, CO₂, and organic fumes

HAZARDOUS POLYMERIZATION: No data

-----**ENVIRONMENTAL INFORMATION**-----

SPILL OR LEAKAGE PROCEDURES: Wearing full protective equipment, eliminate all sources of ignition. Dissolve in hexane and wash with water. Sweep up the mixture and dispose of properly.

WASTE DISPOSAL: Consult state, local, or federal EPA regulations for proper disposal.

-----**PROTECTION AND PRECAUTIONS**-----

VENTILATION REQUIREMENTS: None

RESPIRATORY PROTECTION: None

PROTECTIVE GLOVES: Rubber or latex

EYE/FACE PROTECTION: ANSI approved safety goggles

HANDLING AND STORAGE: Keep away from heat.

OTHER PRECAUTIONS: The material will hydrolyze with water. Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

The information herein is believed to be accurate and reliable as of the date compiled. However, Chemat Technology Inc. makes no representation, warranty or guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

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