

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 100 **ACGIH(TLV):** No data

OSHA/PEL: No data

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

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.

DATE PREPARED: August 2000