

Common Name: **LEAD IODIDE**

Synonyms: Lead II Iodide

CAS No: 10101-63-0

 Molecular Formula:  $PbI_2$ 

RTK Substance No: 1107

Description: Bright yellow powder

## HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<b>3 - Health</b> <b>0 - Fire</b> <b>0 - Reactivity</b>  <b>DOT ID #:</b> UN 3077 <b>ERG Guide #:</b> 171 <b>Hazard Class:</b> 9 (Environmentally Hazardous Material)	Extinguish fire using an agent suitable for type of surrounding fire. <b>Lead iodide</b> itself does not burn. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Lead Oxides</i> .  Use water spray to keep fire-exposed containers cool.	<b>Lead iodide</b> is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE).

## SPILL/LEAKS

**Isolation Distance:** 10 to 25 meters  
(30 to 80 feet)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up.

Toxic to aquatic organisms

## PHYSICAL PROPERTIES

**Odor Threshold:** Odorless  
**Flash Point:** Not combustible  
**LEL:** N/A  
**UEL:** N/A  
**Specific Gravity:** 6.16 (water = 1)  
**Vapor Pressure:** No information  
**Water Solubility:** Very slightly soluble in boiling water  
**Melting Point:** 756°F (402°C)

## EXPOSURE LIMITS

**OSHA:** 0.05 mg/m<sup>3</sup>, 8-hr TWA (as *Lead*)  
**NIOSH:** 0.05 mg/m<sup>3</sup>, 10-hr TWA (as *Lead*)  
**ACGIH:** 0.05 mg/m<sup>3</sup>, 8-hr TWA (as *Lead*)  
**IDLH LEVEL:** 100 mg/m<sup>3</sup> (as *Lead*)

## PROTECTIVE EQUIPMENT

**Gloves:** Nitrile, Latex, Rubber  
**Coverall:** DuPont Tyvek®  
**Boot:** Latex, Butyl, Neoprene  
**Respirator:** <0.5 mg/m<sup>3</sup> - N100  
 >0.5 mg/m<sup>3</sup> - full facepiece APR with High Efficiency filters  
 >50 mg<sup>3</sup> but ≤100 mg/m<sup>3</sup> Supplied Air

## HEALTH EFFECTS

**Eyes:** Irritation  
**Skin:** No information  
**Acute:** Headache, irritability, upset stomach, and weakness.  
**Chronic:** Inorganic *Lead* compounds may cause lung, brain, stomach and kidney cancer in humans.  
  
 Metallic taste, colic, muscle cramps  
 Damage to the nervous system

## FIRST AID AND DECONTAMINATION

**Remove** the person from exposure.  
**Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.  
**Remove** contaminated clothing and wash contaminated skin with soap and water.  
**Transfer** to a medical facility.