




<a href="#">Lead Iodide</a>	<a href="#">Pricing &gt;</a>
<a href="#">Lead Iodide Solution</a>	<a href="#">Pricing &gt;</a>
<a href="#">Ultra Dry Lead Iodide</a>	<a href="#">Pricing &gt;</a>

<b>Linear Formula</b>	PbI <sub>2</sub>
<b>Pubchem CID</b>	24931
<b>MDL Number</b>	MFCD00011163
<b>EC No.</b>	233-256-9
<b>IUPAC Name</b>	diiodolead
<b>Beilstein/Reaxys No.</b>	N/A
<b>SMILES</b>	I[Pb](I)(I)I
<b>Inchl Identifier</b>	InChI=1S/4HI.Pb/h4*1H;/q;;;;+4/p-4
<b>Inchl Key</b>	CDTCEQPLAWQMLB-UHFFFAOYSA-J
<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	H302-H332-H360-H373-H410
<b>Hazard Codes</b>	T, N
<b>Precautionary Statements</b>	P201-P260-P280-P301+P312+P330-P308+P313
<b>Risk Codes</b>	61-20/22-33-50/53-62
<b>Safety Statements</b>	53-45-60-61
<b>RTECS Number</b>	N/A
<b>Transport Information</b>	UN 2291 6.1/PG III
<b>WGK Germany</b>	3
<b>GHS Pictograms</b>	<p><a href="#">GHS07 Exclamation Point</a></p>  <p><a href="#">GHS08 Health Hazard</a></p>  <p><a href="#">GHS09 Environment</a></p> 

[Create Printable PDF](#)

# SAFETY DATA SHEET

Date Accessed: 06/24/2022

Date Revised: 05/15/2015

---

## SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #10101-63-0

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

---

## SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)  
GHS08 Health hazard  
Repr. 1A H360 May damage fertility or the unborn child.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.  
GHS07  
Acute Tox. 4 H302 Harmful if swallowed.  
Acute Tox. 4 H332 Harmful if inhaled.  
Hazards not otherwise classified No data available  
GHS label elements, including precautionary statements



Hazard pictograms  
GHS07 GHS08  
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 organs through prolonged or repeated exposure.  
Precautionary statements

P260 Do not breathe  
dust/fume/gas/mist/vapors/spray.  
P261 Avoid breathing  
dust/fume/gas/mist/vapors/spray.  
P281 Use personal protective equipment as required.  
P304+P340 IF INHALED: Remove person to fresh air  
and keep comfortable for breathing.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance  
with local/regional/national/international regulations.  
WHMIS classification  
D1B - Toxic material causing immediate and serious  
toxic effects  
D2A - Very toxic material causing other toxic effects  
Classification system  
HMIS ratings (scale 0-4)  
(Hazardous Materials Identification System)  
Health (acute effects) = 2  
Flammability = 0  
Physical Hazard = 1  
Other hazards  
Results of PBT and vPvB assessment  
PBT: N/A  
vPvB: N/A

---

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances  
CAS No. / Substance Name:  
10101-63-0 Lead(II) iodide  
Identification number(s):  
EC number: 233-256-9  
Index number: 082-001-00-6

---

### **SECTION 4. FIRST AID MEASURES**

Description of first aid measures  
If inhaled:  
Supply patient with fresh air. If not breathing, provide  
artificial respiration. Keep patient warm.  
Seek immediate medical advice.  
In case of skin contact:  
Immediately wash with soap and water; rinse  
thoroughly.  
Seek immediate medical advice.  
In case of eye contact:  
Rinse opened eye for several minutes under running  
water. Consult a physician.  
If swallowed:  
Seek medical treatment.

Information for doctor  
Most important symptoms and effects, both acute and delayed:  
No data available  
Indication of any immediate medical attention and special treatment needed:  
No data available

---

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media  
Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire.  
Special hazards arising from the substance or mixture  
If this product is involved in a fire, the following can be released:  
Hydrogen iodide (HI)  
Lead oxide fume  
Advice for firefighters  
Protective equipment:  
Wear self-contained respirator.  
Wear fully protective impervious suit.

---

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures  
Use personal protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Environmental precautions: Do not allow product to enter drains, sewage systems, or other water courses.  
Methods and materials for containment and cleanup:  
Dispose of contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Prevention of secondary hazards: No special measures required.  
Reference to other sections  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

---

## **SECTION 7. HANDLING AND STORAGE**

Handling  
Precautions for safe handling

Keep container tightly sealed.  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation at the workplace.  
Open and handle container with care.  
Information about protection against explosions and fires: The product is not flammable  
Conditions for safe storage, including any incompatibilities  
Requirements to be met by storerooms and receptacles: No special requirements.  
Information about storage in one common storage facility:  
Store in the dark.  
Store away from oxidizing agents.  
Further information about storage conditions:  
Keep container tightly sealed.  
Store in cool, dry conditions in well-sealed containers.  
Protect from exposure to light.  
Specific end use(s) No data available

---

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Additional information about design of technical systems:  
Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.  
Control parameters  
Components with limit values that require monitoring at the workplace:  
None.  
Additional information: No data  
Exposure controls  
Personal protective equipment  
Follow typical protective and hygienic practices for handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Remove all soiled and contaminated clothing immediately.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.  
Maintain an ergonomically appropriate working environment.  
Breathing equipment: Use suitable respirator when high concentrations are present.  
Protection of hands:  
Impervious gloves  
Inspect gloves prior to use.  
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.  
Penetration time of glove material (in minutes) No

data available  
Eye protection: Safety glasses  
Body protection: Protective work clothing.

---

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance:

Form: Powder

Color: Yellow

Odor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 402 °C (756 °F)

Boiling point/Boiling range: 954 °C (1749 °F)

Sublimation temperature / start: No data available

Flammability (solid, gas) No data available.

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: No data available.

Explosion limits:

Lower: No data available

Upper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 6.16 g/cm<sup>3</sup> (51.405 lbs/gal)

Relative density No data available.

Vapor density N/A

Evaporation rate N/A

Solubility in / Miscibility with

Water at 20 °C (68 °F): 0.63 g/l

Partition coefficient (n-octanol/water): No data available.

Viscosity:

Dynamic: N/A

Kinematic: N/A

Other information No data available

---

## **SECTION 10. STABILITY AND REACTIVITY**

Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions Reacts with strong oxidizing agents

Conditions to avoid No data available

Incompatible materials:

Oxidizing agents  
Light  
Hazardous decomposition products:  
Hydrogen iodide (HI)  
Lead oxide fume

---

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Acute toxicity:

Harmful if inhaled.

Harmful if swallowed.

LD/LC50 values that are relevant for classification: No data

Skin irritation or corrosion: May cause irritation

Eye irritation or corrosion: May cause irritation

Sensitization: No sensitizing effects known.

Germ cell mutagenicity: No effects known.

Carcinogenicity:

EPA-B2: Probable human carcinogen, sufficient evidence from animal studies; inadequate evidence or no data from epidemiologic studies.

NTP-R: Reasonably anticipated to be a carcinogen: limited evidence from studies in humans or sufficient evidence from studies in experimental animals.

ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s),

or by mechanism(s) not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans.

Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

IARC-2A: Probably carcinogenic to humans: limited human evidence; sufficient evidence in experimental animals

Reproductive toxicity: May damage fertility or the unborn child.

Specific target organ system toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Specific target organ system toxicity - single exposure: No effects known.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: No effects known.

Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

---

## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity

Aquatic toxicity: No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Ecotoxicological effects:

Remark: Very toxic for aquatic organisms

Additional ecological information:

Do not allow product to reach groundwater, water courses, or sewage systems, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

May cause long lasting harmful effects to aquatic life.

Avoid transfer into the environment.

Very toxic for aquatic organisms

Results of PBT and vPvB assessment

PBT: N/A

vPvB: N/A

Other adverse effects No data available

---

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Recommendation Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

---

## **SECTION 14. TRANSPORT INFORMATION**

UN-Number

DOT, IMDG, IATA UN2291

UN proper shipping name

DOT RQ Lead compounds, soluble, n.o.s. (Lead(II) iodide)

IMDG, IATA LEAD COMPOUND, SOLUBLE, N.O.S. (Lead(II) iodide)

Transport hazard class(es)

DOT

Class 6.1 Toxic substances.

Label 6.1

Class 6.1 (T5) Toxic substances

Label 6.1

IMDG, IATA

Class 6.1 Toxic substances.



Label 6.1  
Packing group  
DOT, IMDG, IATA III  
Environmental hazards: Environmentally hazardous  
substance, solid  
Special precautions for user Warning: Toxic  
substances  
EMS Number: F-A,S-A  
Segregation groups Heavy metals and their salts  
(including their organometallic compounds), lead and  
its compounds  
Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code N/A  
Transport/Additional information:  
DOT  
Hazardous substance: 10 lbs, 4.54 kg  
Marine Pollutant (DOT): No  
UN "Model Regulation": UN2291, Lead compounds,  
soluble, n.o.s. (Lead(II) iodide), 6.1, III

---

## **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental  
regulations/legislation specific for the substance or  
mixture  
GHS label elements, including precautionary  
statements  
Hazard pictograms  
GHS07 GHS08  
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 organs through  
prolonged or repeated exposure.  
Precautionary statements  
P260 Do not breathe  
dust/fume/gas/mist/vapors/spray.  
P261 Avoid breathing  
dust/fume/gas/mist/vapors/spray.  
P281 Use personal protective equipment as required.  
P304+P340 IF INHALED: Remove person to fresh air  
and keep comfortable for breathing.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance  
with local/regional/national/international regulations.  
National regulations  
All components of this product are listed in the U.S.  
Environmental Protection Agency Toxic Substances  
Control Act Chemical substance Inventory.  
All components of this product are listed on the  
Canadian Non-Domestic Substances List (NDSL).

SARA Section 313 (specific toxic chemical listings)  
10101-63-0 Lead(II) iodide  
California Proposition 65  
Prop 65 - Chemicals known to cause cancer  
10101-63-0 Lead(II) iodide  
Prop 65 - Developmental toxicity Substance is not listed.  
Prop 65 - Developmental toxicity, female Substance is not listed.  
Prop 65 - Developmental toxicity, male Substance is not listed.  
Information about limitation of use: For use only by technically qualified individuals.  
Other regulations, limitations and prohibitive regulations  
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.  
Substance is not listed.  
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.  
Substance is not listed.  
Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.  
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

---

## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.