




<a href="#">Methylammonium Triiodoplumbate(II) Precursor</a>		<a href="#">Pricing &gt;</a>
<b>Linear Formula</b>	$\text{CH}_3\text{NH}_3\text{PbI}_3^-$	
<b>Pubchem CID</b>	N/A	
<b>MDL Number</b>	N/A	
<b>EC No.</b>	N/A	
<b>Signal Word</b>	Danger	
<b>Hazard Statements</b>	H226-H302+H332-H360-H373	
<b>Hazard Codes</b>	F, Xi, Xn	
<b>Precautionary Statements</b>	P261-P281-P304+P340-P305+P351+P338-P403+P233-P501	
<b>Flash Point</b>	60 °C	
<b>Risk Codes</b>	R61;R20/21/22;R33;R36;R50/53;R62	
<b>Safety Statements</b>	S53;S26;S36/37;S45;S61	
<b>Transport Information</b>	UN 2929 6.1(3)/ PG I	
<b>GHS Pictograms</b>	<a href="#">GHS02 Flame</a>  <a href="#">GHS07 Exclamation Point</a>  <a href="#">GHS08 Health Hazard</a> 	

[Create Printable PDF](#)

## SAFETY DATA SHEET

Date Accessed: 03/29/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #69507-98-8

**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 GHS02  
Flame Flam. Liq. 3 H226 Flammable liquid and vapor.  
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. · Label elements · GHS label elements The  
substance is classified and labeled according to the  
Globally Harmonized System (GHS). · Hazard  
pictogram



· Signal word Danger · Hazard statements H226  
Flammable liquid and vapor. 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 P261 Avoid breathing  
dust/fume/gas/mist/vapors/spray P281 Use personal  
protective equipment as required. P305+P351+P338  
If in eyes: Rinse cautiously with water for several  
minutes. Remove contact lenses, if present and easy  
to do. Continue rinsing. P304+P340 IF INHALED:  
Remove person to fresh air and keep comfortable for  
breathing. P403+P233 Store in a well-ventilated  
place. Keep container tightly closed. P501 Dispose of  
contents/container in accordance with  
local/regional/national/international regulations. ·  
Classification system: · NFPA ratings (scale 0 - 4)  
Health = 4 Fire = 2 Reactivity = 0 · HMIS-ratings  
(scale 0 - 4) Health = 4 Fire = 2 Reactivity = 0 · Other  
hazards · Results of PBT and vPvB assessment ·  
PBT: Not applicable. · vPvB: Not applicable.

---

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances · CAS No.  
Description 69507-98-8 Methylammonium  
triiodoplumbate(II) (40wt% solution in DMF)

---

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

Description of first aid measures · General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. · After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Immediately rinse with water. · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Immediately call a doctor. · Information for doctor: · Most important symptoms and effects, both acute and delayed No further relevant information available · Indication of any immediate medical attention and special treatment needed No further relevant information available.

---

## **SECTION 5. FIREFIGHTING MEASURES**

· Extinguishing media · Suitable extinguishing agents: CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · For safety reasons unsuitable extinguishing agents: Water with full jet · Special hazards arising from the substance or mixture No further relevant information available. · Advice for firefighters · Protective equipment: Mouth respiratory protective device.

---

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

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. · Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. · Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. · 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 Thorough dedusting. Ensure good ventilation/exhaustion at the

workplace. Open and handle receptacle with care. · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available. · Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: No special requirements. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep receptacle tightly sealed. · Specific end use(s) No further relevant information available.

---

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

· Additional information about design of technical systems: No further data; see item 7. · Control parameters · Components with limit values that require monitoring at the workplace: Not required. · Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately. · Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Tightly sealed goggles

---

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

· Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Yellow · Odor: undistinguishable · Odor threshold: Not determined. · pH-value: Not applicable. · Change in condition Melting point/Melting range:

Undetermined. Boiling point/Boiling range:  
Undetermined. · Flash point: 60 °C (140 °F) ·  
Flammability (solid, gaseous): Flammable. · Ignition  
temperature: Decomposition temperature: Not  
determined. · Auto igniting: Not determined. · Danger  
of explosion: Not determined. · Explosion limits:  
Lower: Not determined. Upper: Not determined. ·  
Vapor pressure: Not applicable. · Density at 20 °C (68  
°F): 1.368 g/cm<sup>3</sup> (11.416 lbs/gal) · Relative density  
Not determined. · Vapor density Not applicable. ·  
Evaporation rate Not applicable. · Solubility in /  
Miscibility with Water: Insoluble. · Partition coefficient  
(n-octanol/water): Not determined. · Viscosity:  
Dynamic: Not applicable. Kinematic: Not applicable. ·  
Solvent content: Organic solvents: 0.0 % VOC  
content: 0.0 g/l / 0.00 lb/gl Solids content: 100.0 % ·  
Other information No further relevant information  
available.

---

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

· Reactivity No further relevant information available. ·  
Chemical stability · Thermal decomposition /  
conditions to be avoided: No decomposition if used  
according to specifications. · Possibility of hazardous  
reactions No dangerous reactions known. · Conditions  
to avoid No further relevant information available. ·  
Incompatible materials: No further relevant  
information available. · Hazardous decomposition  
products: No dangerous decomposition products  
known.

---

## **SECTION 11. TOXICOLOGICAL INFORMATION**

· Information on toxicological effects · Acute toxicity: ·  
Primary irritant effect: · on the skin: No irritant effect. ·  
on the eye: No irritating effect. · Sensitization: No  
sensitizing effects known. · Additional toxicological  
information: · Carcinogenic categories · IARC  
(International Agency for Research on Cancer)  
Substance is not listed. · NTP (National Toxicology  
Program) Substance is not listed. · OSHA-Ca  
(Occupational Safety & Health Administration)  
Substance is not listed.

---

## **SECTION 12. ECOLOGICAL INFORMATION**

· Toxicity · Aquatic toxicity: No further relevant  
information available. · Persistence and degradability  
No further relevant information available. · Behavior in  
environmental systems: · Bioaccumulative potential  
No further relevant information available. · Mobility in

soil No further relevant information available. ·  
Additional ecological information: · General notes:  
Water hazard class 1 (Self-assessment): slightly  
hazardous for water Do not allow undiluted product or  
large quantities of it to reach ground water, water  
course or sewage system. · Results of PBT and vPvB  
assessment · PBT: Not applicable. · vPvB: Not  
applicable. · Other adverse effects No further relevant  
information available.

---

## **SECTION 13. DISPOSAL CONSIDERATIONS**

· Waste treatment methods · Recommendation: Must  
not be disposed of together with household garbage.  
Do not allow product to reach sewage system. ·  
Uncleaned packagings: · Recommendation: Disposal  
must be made according to official regulations.

---

## **SECTION 14. TRANSPORT INFORMATION**

· UN-Number · DOT, IMDG, IATA UN2929 · UN  
proper shipping name · DOT, IATA Toxic liquids,  
flammable, organic, n.o.s. · IMDG TOXIC LIQUID,  
FLAMMABLE, ORGANIC, N.O.S. · Transport hazard  
class(es) · DOT · Class 6.1 Toxic substances · Label  
6.1, 3 · IMDG · Class 6 · Label 6.1/3 · IATA · Class 6.1  
Toxic substances · Label 6.1 (3) · Packing group ·  
DOT, IMDG, IATA I · Environmental hazards: Not  
applicable. · Special precautions for user Not  
applicable. · EMS Number: F-E,S-D · Stowage  
Category B · Stowage Code SW2 Clear of living  
quarters. · Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code Not applicable. ·  
Transport/Additional information: · DOT · Quantity  
limitations On passenger aircraft/rail: 1 L On cargo  
aircraft only: 30 L · IMDG · Limited quantities (LQ) 0 ·  
Excepted quantities (EQ) Code: E5 Maximum net  
quantity per inner packaging: 1 g Maximum net  
quantity per outer packaging: 300 g · UN "Model  
Regulation": UN 2929 TOXIC LIQUIDS,  
FLAMMABLE, ORGANIC, N.O.S., 6.1 (3), I

---

## **SECTION 15. REGULATORY INFORMATION**

· Safety, health and environmental  
regulations/legislation specific for the substance or  
mixture · Sara · Section 355 (extremely hazardous  
substances): Substance is not listed. · Section 313  
(Specific toxic chemical listings): Substance is not  
listed. · TSCA (Toxic Substances Control Act):  
Substance is not listed. · Proposition 65 · Chemicals

known to cause cancer: Substance is not listed. ·  
Chemicals known to cause reproductive toxicity for females: Substance is not listed. · Chemicals known to cause reproductive toxicity for males: Substance is not listed. · Chemicals known to cause developmental toxicity: Substance is not listed. · Carcinogenic categories · EPA (Environmental Protection Agency) Substance is not listed. · TLV (Threshold Limit Value established by ACGIH) Substance is not listed. · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard statements H226 Flammable liquid and vapor. 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 P261 Avoid breathing dust/fume/gas/mist/vapors/spray P281 Use personal protective equipment as required. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · National regulations: · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. · 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.

---