

Silver Periodate		Pricing >
Linear Formula	Ag ₅ IO ₆	
Pubchem CID	91886294	
MDL Number	MFCD00014149	
EC No.	N/A	
IUPAC Name	pentasilver;pentaoxido(oxo)-λ ⁷ -iodane	
SMILES	[O-]I(=O)([O-])([O-])([O-])[O-].[Ag+].[Ag+].[Ag+].[Ag+].[Ag+]	
Inchl Identifier	InChI=1S/5Ag.H5IO6/c;;;;;2-1(3,4,5,6)7/h;;;;;(H5,2,3,4,5,6,7)/q5 ⁺ +1;/p-5	
Inchl Key	NEEYQSLHJZSEKP-UHFFFAOYSA-I	
Signal Word	Danger	
Hazard Statements	H272-H301-H315-H319-H332-H335	
Hazard Codes	O, T	
Precautionary Statements	P210-P220-P221-P250-P260-P280-P284-P301+P310-P302+P352-P304+P340-P305+P351+P338-P332+P31	
Risk Codes	N/A	
Safety Statements	N/A	
Transport Information	UN3086 6.1, 5.1/PG II	

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SAFETY DATA SHEET

Date Accessed: 08/15/2022

Date Revised: 05/15/2015

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #15606-77-6

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

Statements of Hazard: Toxic, Oxidizer.

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be toxic by ingestion, harmful by skin absorption and inhalation.

Chronic Health Hazard: Not Available

HMIS Rating: H:3 F:0 P:2

NFPA Rating: H:3 F:0 R:2

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Pictogram:



Signal Word: Danger

Hazard Statement(s):

H272 May intensify fire, Oxidizer.

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary Statement(s): P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles

P250 Do not subject to grinding/shock/friction.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Silver periodate
Synonyms: Not Available
CAS Number: 15606-77-6
MDL Number: MFCD00014149
EINECS Number: Not Available
Beilstein Registry Number: Not Available
Molecular Formula: Ag₅IO₆
Molecular Weight: 762.24
Content: 95-100%
Notes: Not Available

SECTION 4. FIRST AID MEASURES

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.
Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention.
Ingestion: Do not induce vomiting. Seek medical attention.
Inhalation: Move to a fresh air environment. Contact a physician if breathing becomes difficult.

SECTION 5. FIREFIGHTING MEASURES

Flash Point: Not Available
Explosion Limits: Lower: Not Available
Upper: Not Available
Autoignition: Not Available
Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam or water spray.
Protective Equipment: Wear self-contained respirator and fully protective impervious suit.
Specific Hazards: May emit hazardous fumes under fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use.
Keep unprotected persons away.
Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal

or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Storage: Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities: Not Available

Storage Temperature: 15 – 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash facility in your vicinity.

Skin: Wear impervious gloves and protective clothing.

Respiratory: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

Exposure Limits: Country Source Type Value

USA ACGIH TWA Not Available

USA OSHA STEL Not Available

USA OSHA PEL Not Available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid

Odor: Not Available

Melting Point: Not Available

Boiling Point: Not Available

pH Value: Not Available

Density: Not Available

Refractive Index, n₂₀

D: Not Available

Viscosity: Not Available

Solubility in Water: Not Available

Vapor Pressure: Not Available

Vapor Density(Air=1): Not Available

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Incompatibility: Strong oxidizing agents.

Conditions to Avoid: Heat, Flame, Sparks, other ignition sources

Hazardous Decomposition Products: Silver oxides

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: Not Available

Target Organs: Not Available

Toxicity Data: Not Available

Skin corrosion/irritation: Not Available

Serious eye damage/irritation: Not Available

Carcinogenicity: Not Available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity: Not Available

Persistence and degradability: Not Available

Bioaccumulative potential: Not Available

Mobility in soil: Not Available

PBT and vPvB assessment: Not Available

Other adverse effects: Not Available

SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping Name: Toxic Solid, Oxidizing, N.O.S.

DOT UN Number: UN3086

DOT Hazard Class: Class 6.1, 5.1

DOT Packing Group: II

IMDG Shipping Name: Toxic Solid, Oxidizing, N.O.S.

IMDG UN Number: UN3086

IMDG Hazard Class: Class 6.1, 5.1

IMDG Packing Group: II

IATA Shipping Name: Toxic Solid, Oxidizing, N.O.S.

IATA UN Number: UN3086

IATA Hazard Class: Class 6.1, 5.1

SECTION 15. REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA): Not listed
Superfund Amendments and Reauthorization Act (SARA 302): Not listed

Superfund Amendments and Reauthorization Act (SARA 311/312): Not listed

Superfund Amendments and Reauthorization Act (SARA 313): Not listed

European Union:

European Inventory of Existing Chemical Substances (EINECS): Not Available

Hazard Codes: Not listed

Risk Statements: Not listed

Safety Statements: Not listed

Canada

Canadian Domestic Substances List (DSL): Not listed

Canadian Domestic Substances List (NDSL): Not listed

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.
