

<a href="#">Manganese Platinum Alloy</a>		<a href="#">Pricing &gt;</a>
<a href="#">Platinum Manganese Sputtering Target</a>		<a href="#">Pricing &gt;</a>
<b>Signal Word</b>	N/A	
<b>Hazard Statements</b>	N/A	
<b>Hazard Codes</b>	N/A	
<b>Risk Codes</b>	N/A	
<b>Safety Statements</b>	N/A	
<b>Transport Information</b>	Non-hazardous material	

[Create Printable PDF](#)

## SAFETY DATA SHEET

Date Accessed: 05/19/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #12339-83-2

**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  
The substance is not classified according to the Globally Harmonized System (GHS).

Classification according to Directive 67/548/EEC or  
Directive 1999/45/EC Not applicable  
Information concerning particular hazards for human  
and environment: Not applicable  
Label elements  
Labelling according to EU guidelines:  
Observe the general safety regulations when handling  
chemicals  
Classification system  
HMIS ratings (scale 0-4)  
(Hazardous Materials Identification System)  
Health (acute effects) = 0  
Flammability = 0  
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# Description:  
7439-96-5 Manganese  
7440-06-4 Platinum

---

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

Description of first aid measures  
General information No special measures required.  
After inhalation Seek medical treatment in case of  
complaints.  
After skin contact Generally the product does not  
irritate the skin.  
After eye contact  
Rinse opened eye for several minutes under running  
water. If symptoms persist, consult a doctor.  
After swallowing If symptoms persist consult 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 Special powder for metal fires. Do not use water.  
For safety reasons unsuitable extinguishing agents  
Water  
Special hazards arising from the substance or mixture  
In case of fire, the following can be released:  
Metal oxide fume  
Advice for firefighters  
Protective equipment: No special measures required.

---

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

Personal precautions, protective equipment and emergency procedures Not required.  
Environmental precautions:  
Do not allow material to be released to the environment without proper governmental permits.  
Methods and material for containment and cleaning up: Pick up mechanically.  
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.  
Information about protection against explosions and fires: No special measures required.  
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: No information known.  
Further information about storage conditions:  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.  
Specific end use(s) No further relevant information available.

---

## **SECTION 8. EXPOSURE**

## CONTROLS/PERSONAL PROTECTION

Control parameters

Components with limit values that require monitoring at the workplace:

7439-96-5 Manganese (100.0%)

PEL () Short-term value:  $5 \text{ mg/m}_3$

as Mn and inorganic compounds fume

REL () Short-term value:  $3 \text{ mg/m}_3$

Long-term value:  $1 \text{ mg/m}_3$

as Mn and inorganic compounds fume

TLV () (0.2) NIC-0.02\* NIC-0.2\*  $\text{mg/m}_3$

as Mn;+ inorg. comp.;\*resp.,\*\*inh. fraction:NIC-A4

Additional information: No data

Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Not required.

Eye protection: Safety glasses

Body protection: Protective work clothing.

---

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid in various forms

Color: Not determined

Odor: Not determined

Odour threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not determined

Sublimation temperature / start: Not determined

Flammability (solid, gaseous) Not determined.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Auto igniting: Not determined.

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapor pressure at 20°C (68 °F): Not determined

Density at 20°C (68 °F): Not determined

Relative density Not determined.

Vapour density Not applicable.

Evaporation rate Not applicable.

Segregation coefficient (n-octanol/water): Not determined.

Viscosity:  
dynamic: Not applicable.  
kinematic: Not applicable.  
Other information No further relevant information  
available.

---

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

Reactivity  
Chemical stability  
Thermal decomposition / conditions to be avoided:  
Decomposition will not occur if used and stored  
according to specifications.  
Possibility of hazardous reactions No dangerous  
reactions known  
Incompatible materials: No information known.  
Hazardous decomposition products: Metal oxide fume

---

## **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects  
Acute toxicity:  
Primary irritant effect:  
on the skin: Powder: irritant effect  
on the eye: Powder: irritant effect  
Sensitization: No sensitizing effects known.  
Additional toxicological information:  
To the best of our knowledge the acute and chronic  
toxicity of this substance is not fully known.  
EPA-D: Not classifiable as to human carcinogenicity:  
inadequate human and animal evidence of  
carcinogenicity or no data are available.  
The Registry of Toxic Effects of Chemical Substances  
(RTECS) contains acute and/or other multiple dose  
toxicity data for components in this product.  
The Registry of Toxic Effects of Chemical Substances  
(RTECS) contains reproductive and/or mutation data  
for components in this product.  
The Registry of Toxic Effects of Chemical Substances  
(RTECS) contains tumorigenic and/or carcinogenic  
and/or neoplastic data for components in this product.

---

## **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:  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Do not allow material to be released to the environment without proper governmental permits. 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 Consult state, local or national regulations to ensure proper disposal.  
Uncleaned packagings:  
Recommendation: Disposal must be made according to official regulations.

---

## **SECTION 14. TRANSPORT INFORMATION**

UN-Number  
DOT, ADR, ADN, IMDG, IATA Not applicable  
UN proper shipping name  
DOT, ADR, ADN, IMDG, IATA Not applicable  
Transport hazard class(es)  
DOT, ADR, ADN, IMDG, IATA  
Class Not applicable  
Packing group  
DOT, ADR, IMDG, IATA Not applicable  
Environmental hazards:  
Marine pollutant: No  
Special precautions for user Not applicable.  
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

---

## **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or

mixture

Product related hazard information:

Observe the general safety regulations when handling chemicals

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 Domestic Substances List (DSL).

Information about limitation of use:

For use only by technically qualified individuals.

This product is subject to the reporting requirements of section 313 of the Emergency

Planning and Community Right to Know Act of 1986 and 40CFR372.

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.

---