

Platinum Balls	Pricing >
Platinum Band	Pricing >
Platinum Bars	Pricing >
Platinum Black	Pricing >
Platinum Blocks	Pricing >
Platinum Boats	Pricing >
Platinum Chunk	Pricing >
Platinum Coil	Pricing >
Platinum Concentrate	Pricing >
Platinum Conductor Paste	Pricing >
Platinum Crucibles	Pricing >
Platinum Cubes	Pricing >
Platinum Cylinder	Pricing >
Platinum Disc	Pricing >
Platinum Electrode	Pricing >
Platinum Flake	Pricing >
Platinum Flange	Pricing >
Platinum Foil	Pricing >
Platinum Gauze	Pricing >
Platinum Granules	Pricing >
Platinum Hollow Nanospheres	Pricing >
Platinum Hollow Spheres	Pricing >
Platinum Ingot	Pricing >
Platinum Ink	Pricing >
Platinum Insulated Wire	Pricing >
Platinum Lump	Pricing >
Platinum Marker Bands	Pricing >
Platinum Mesh	Pricing >
Platinum Metal	Pricing >
Platinum Microfoil	Pricing >

Platinum Microleaf	Pricing >
Platinum Nanoparticle Dispersion	Pricing >
Platinum Nanoparticles	Pricing >
Platinum Nanoparticles on Carbon Black	Pricing >
Platinum Nanoparticles on Titania	Pricing >
Platinum Nanoprisms	Pricing >
Platinum Nanorods	Pricing >
Platinum Nanostars	Pricing >
Platinum on Activated Charcoal	Pricing >
Platinum on Alumina	Pricing >
Platinum on Barium Sulfate	Pricing >
Platinum on Calcium Carbonate	Pricing >
Platinum on Carbon	Pricing >
Platinum on Silica	Pricing >
Platinum Parts	Pricing >
Platinum Pellets	Pricing >
Platinum Pieces	Pricing >
Platinum Plate	Pricing >
Platinum Powder	Pricing >
Platinum Puck	Pricing >
Platinum Ribbon	Pricing >
Platinum Ring	Pricing >
Platinum Rod	Pricing >
Platinum Rotatable Sputtering Target	Pricing >
Platinum Samples	Pricing >
Platinum Shavings	Pricing >
Platinum Sheet	Pricing >
Platinum Shot	Pricing >
Platinum Single Crystal	Pricing >
Platinum Sleeves	Pricing >
Platinum Slugs	Pricing >
Platinum Specimen	Pricing >
Platinum Spheres	Pricing >

Platinum Sponge	Pricing >
Platinum Spring	Pricing >
Platinum Sputtering Target	Pricing >
Platinum Strip	Pricing >
Platinum Tape	Pricing >
Platinum Tube	Pricing >
Platinum Wafer	Pricing >
Platinum Wire	Pricing >
Platinum, Sulfided, on Carbon	Pricing >

Linear Formula	Pt
Pubchem CID	23939
MDL Number	MFCD00011179
EC No.	231-116-1
Beilstein/Reaxys No.	N/A
SMILES	[Pt]
Inchl Identifier	InChI=1S/Pt
Inchl Key	BASFCYQUMIYNBI-UHFFFAOYSA-N
Signal Word	Danger
Hazard Statements	H260-H314-H318-H350
Hazard Codes	N/A
Precautionary Statements	P201-P202-P223-P231 + P232-P260-P264-P280-P281-P301 + P330 + P331-P303 + P361 + P353-P304 + P340 + P310-P305 + P351 + P338 + P310-P308 + P313-P335 + P334-P363-P370 + P378-P402 + P404-P405-P501
Flash Point	Not applicable
Risk Codes	N/A
Safety Statements	N/A
RTECS Number	N/A
Transport Information	UN 2257 4.3 / PGI
WGK Germany	1

GHS Pictograms	<u>GHS05 Corrosive</u>
	
	<u>GHS02 Flame</u>
	
	<u>GHS08 Health Hazard</u>
	

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SAFETY DATA SHEET

Date Accessed: 05/20/2022

Date Revised: 05/15/2015

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #7440-06-4

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
Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to the CLP regulation.
Classification according to Directive 67/548/EEC or Directive 1999/45/EC

N/A

Information concerning particular hazards for human and environment:

No data available

Hazards not otherwise classified

No data available
Label elements
Labelling according to Regulation (EC) No 1272/2008
N/A
Hazard pictograms
N/A
Signal word
N/A
Hazard statements
N/A
WHMIS classification
Not controlled
Classification system
HMIS ratings (scale 0-4)
(Hazardous Materials Identification System)
HEALTH
FIRE
REACTIVITY
0
0
0
Health (acute effects) = 0
Flammability = 0
Physical Hazard = 0
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:
7440-06-4 Platinum
Identification number(s):
EC number:
231-116-1

SECTION 4. FIRST AID MEASURES

Description of first aid measures
General information
No special measures required.
If inhaled:
Seek medical treatment in case of complaints.
In case of skin contact:
Generally the product does not irritate the skin.
In case of eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If swallowed:

If symptoms persist consult doctor.

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

Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents

Water

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Platinum oxide

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 official permits.

Do not allow product to enter drains, sewage systems, or other water courses.

Do not allow material to penetrate the ground or soil.

Methods and materials for containment and cleanup:

Pick up mechanically.

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.

Information about protection against explosions and fires:

No special measures required.

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:

Not required.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed containers.

Specific end use(s)

No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

No further data; see section 7.

Control parameters

Components with limit values that require monitoring at the workplace:

7440-06-4 Platinum (100.0%)

PEL (USA) Long-term value: 0.002 mg/m³
soluble salts, as Pt

REL (USA) Long-term value: 1* 0.002** mg/m³
*Metal **soluble salts, as Pt

TLV (USA) Long-term value: 1* 0.002** mg/m³
*metal **soluble salts, as Pt

EL (Canada) Long-term value: 1* 0.002** mg/m³
*metal;**soluble salts (as Pt): S

EV (Canada) Long-term value: 1* 0.002** mg/m³
*metal;**water-soluble compounds (as Pt)

Additional information:

No data

Exposure controls

Personal protective equipment

Follow typical protective and hygienic practices for handling chemicals.

Maintain an ergonomically appropriate working environment.

Breathing equipment:
Not required.
Protection of hands:
Not required.
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: Solid in various forms

Color: Silvery-white

Odor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 1768.4 °C (3215 °F)

Boiling point/Boiling range: 3825 °C (6917 °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: Product does not present an explosion hazard.

Explosion limits:

Lower: No data available

Upper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 21.45 g/cm³ (179 lbs/gal)

Relative density

No data available.

Vapor density

N/A

Evaporation rate

N/A

Solubility in Water (H₂O): No data available

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

No dangerous reactions known

Conditions to avoid

No data available

Incompatible materials:

No data available

Hazardous decomposition products:

Platinum oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

LD/LC50 values that are relevant for classification:

No data

Skin irritation or corrosion:

Generally the product does not irritate the skin.

Eye irritation or corrosion:

No irritant effect.

Sensitization:

No sensitizing effects known.

Germ cell mutagenicity:

No effects known.

Carcinogenicity:

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance.

Reproductive toxicity:

No effects known.

Specific target organ system toxicity - repeated exposure:

No effects known.

Specific target organ system toxicity - single exposure:

No effects known.

Aspiration hazard:

No effects known.

Subacute to chronic toxicity:
The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.
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
Additional ecological information:
Do not allow material to be released to the environment without official permits.
Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage systems.
Avoid transfer into the environment.
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, ADN, IMDG, IATA
N/A

UN proper shipping name
DOT, ADN, IMDG, IATA
N/A
Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA
Class
N/A
Packing group
DOT, IMDG, IATA
N/A
Environmental hazards: N/A
Special precautions for user
N/A
Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code
N/A
Transport/Additional information: DOT
Marine Pollutant (DOT): No

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental
regulations/legislation specific for the substance or
mixture
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).
SARA Section 313 (specific toxic chemical listings)
Substance is not listed.
California Proposition 65
Prop 65 - Chemicals known to cause cancer
Substance is not listed.
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.
REACH - Pre-registered substances
Substance is 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.
