

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name	<b>Platinum Metal Foil; Platinum</b>
Chemical Formula	Pt
Molecular Weight	195.08 g/mol
CAS No.	7440-06-4
EINECS No.	231-116-1
Synonym(s)	Barium salt
Supplier Address*	ISOFLEX USA PO Box 472615 San Francisco, CA 94147 United States
Telephone	+1 415-440-4433
Fax	+1 415-563-4433
Emergency Phone Number (both supplier and manufacturer)	Infotrac/ +1 800-535-5053  *May include subsidiaries or affiliate companies/divisions
Email	<a href="mailto:iusa@isoflex.com">iusa@isoflex.com</a>
Website	<a href="http://www.isoflex.com">www.isoflex.com</a>
Preparation Information	ISOFLEX USA Product Safety +1 415-440-4433

**2. HAZARDOUS INGREDIENTS**

**Emergency Overview:**

Possible sensitizer.

**NFPA Ratings:** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

**Health Hazard = 2      Flammability = 0      Reactivity = 0**



**HMIS Ratings:** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

**Health Hazard = 2      Flammability = 0      Physical Hazard = 0**

<b>HEALTH HAZARD</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>0</b>

**Potential Health Effects**

<i>Inhalation</i>	tract irritation	May be harmful if inhaled; may cause respiratory
<i>Skin</i>	cause skin irritation	May be harmful if absorbed through skin; may
<i>Eyes</i>		May cause eye irritation
<i>Ingestion</i>		May be harmful if swallowed

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name:	Platinum
CAS No.:	7440-06-4
Chemical Formula:	Pt
Molecular Weight:	195.08 g/mol

**4. FIRST AID MEASURES**

<i>General Advice</i>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<i>Inhalation Exposure</i>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<i>Dermal Exposure</i>	Wash off with soap and plenty of water. Consult a physician.
<i>Eye Exposure</i>	Flush eyes with water as a precaution.
<i>Oral Exposure</i>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIREFIGHTING MEASURES**

<i>Suitable Extinguishing Media</i>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<i>Flash Point</i>	N/A
<i>Autoignition Temperature</i>	N/A
<i>Flammability</i>	N/A

**Firefighting**

<i>Protective Equipment</i>	Wear self-contained breathing apparatus for firefighting if necessary.
<i>Further Information</i>	Use water spray to cool unopened containers.
<i>Specific Hazard(s)</i>	Emits toxic fumes under fire conditions.

**6. ACCIDENTAL RELEASE MEASURES**

<i>Personal Precautions</i>	Avoid dust formation. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
<i>Environmental Precautions</i>	Prevent further leakage or spillage if safe to do so. Do not let

product enter drains.

*Methods for Cleaning Up*

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

*Handling*

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Take measures to prevent the buildup of electrostatic charge.

*Storage*

Store in cool place. Keep container tightly closed in a dry, well-ventilated place.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal Protective Equipment

*Respiratory Protection*

Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

*Hand Protection*

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

*Eye Protection*

Safety glasses

*Skin and Body Protection*

Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

*General Hygiene Measures*

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form

Foil

### Safety Data

Molecular Weight:	195.08 g/mol	pH:	N/A
Melting Point:	1772 °C	Boiling Point:	3827 °C
Flash Point:	Not applicable	Ignition Temperature:	N/A
Lower Explosion Limit:	N/A	Upper Explosion Limit:	N/A
Density:	21.45 g/cm <sup>3</sup>	Water Solubility:	N/A

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## 10. STABILITY AND REACTIVITY

*Stability*

Stable under recommended storage conditions

*Materials to Avoid*

Strong oxidizing agents, alcohols

*Hazardous Decomposition Products*

Platinum oxide

*Hazardous Polymerization*

Will not occur

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## 11. TOXICOLOGICAL INFORMATION

<i>Acute Toxicity</i>	No data available
<i>Irritation and Corrosion</i>	No data available
<i>Sensitization</i>	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
<i>Signs and Symptoms of Exposure</i>	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### Chronic Exposure

Carcinogenicity - Rat - Implant  
Tumorigenic: Equivocal tumorigenic agent, by RTECS criteria. Tumorigenic: Tumors at site of application.

Carcinogenicity - Mouse - Implant  
Tumorigenic: Equivocal tumorigenic agent, by RTECS criteria. Tumorigenic: Tumors at site of application.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

### Potential Health Effects

<i>Inhalation</i>	irritation	May be harmful if inhaled; may cause respiratory tract
<i>Skin</i>	cause skin irritation	May be harmful if absorbed through skin; may
<i>Eyes</i>		May cause eye irritation
<i>Ingestion</i>		May be harmful if swallowed
<i>Additional Information</i>	RTECS: TP2160000	

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## 12. ECOLOGICAL INFORMATION

<i>Elimination Information (Persistence and Degradability)</i>	No data available
<i>Ecotoxicity Effects</i>	No data available
<i>Further Information</i>	No data available

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## 13. DISPOSAL CONSIDERATIONS

<i>Product</i>	Burn in a chemical incinerator equipped with an afterburner and scrubber, but exert extra care in igniting. Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
<i>Contaminated Packaging</i>	Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

<b>DOT</b>	
<i>Proper Shipping Name</i>	None
<i>Non-Hazardous for Transport</i>	This substance is considered to be non-hazardous for transport.



ELINCS	European List of Notified Chemical Substances
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency (USA)
EPCRA	Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System (USA)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Containers
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life or Health
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
LDLO	Lethal Dose Low
LOEC	Lowest-Observed-Effective Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
MSHA	Mine Safety and Health Administration (USA)
NCRP	National Council on Radiation Protection & Measurements (USA)
NDSL	Non-Domestic Substances List (Canada)
NFPA	National Fire Protection Association (USA)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
NRC	Nuclear Regulatory Commission (USA)
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PBT	Persistent Bioaccumulative and Toxic Chemical
PEL	Permissible Exposure Limit
PIH	Poisonous by Inhalation Hazard
RCRA	Resource Conservation and Recovery Act (USA)
RCT	Radiation Control Technician
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act (USA)
TDG	Transportation of Dangerous Goods (Canada)
TIH	Toxic by Inhalation Hazard
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährdungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

\*One or more of the above-listed items may not appear in this document.

### General Disclaimer

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