Safety Data Sheet



Version 1.3 Revision Date 08/01/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Platinum Metal Foil; Platinum

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 29475

San Francisco, CA 94129

United States

Telephone +1 415-440-4433 Fax +1 415-563-4433

Emergency Phone Number Infotrac/ +1 800-535-5053

(both supplier and

Preparation Information

manufacturer) *May include subsidiaries or affiliate companies/divisions

 Email
 iusa@isoflex.com

 Website
 www.isoflex.com

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

HEALTH HAZARD	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

Potential Health Effects

Inhalation May be harmful if inhaled; may cause respiratory tract irritation

Skin May be harmful if absorbed through skin; may cause skin irritation

Eyes May cause eye irritation

Ingestion 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

General Advice Consult a physician. Show this safety data sheet to the doctor in

attendance.

Inhalation Exposure If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

Dermal Exposure Wash off with soap and plenty of water. Consult a physician.

Eye Exposure Flush eyes with water as a precaution.

Oral Exposure Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Flash Point N/A

Autoignition Temperature N/A

Flammability N/A

Firefighting

Protective Equipment Wear self-contained breathing apparatus for firefighting if necessary.

Further Information Use water spray to cool unopened containers.

Specific Hazard(s) Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid dust formation. Ensure adequate ventilation. Remove all sources

of ignition. Evacuate personnel to safe areas.

Environmental Precautions 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.

7. HANDING 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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Foil

Safety Data

Molecular Weight:195.08 g/molpH:N/AMelting Point:1772 °CBoiling Point:3827 °CFlash Point:Not applicableIgnition Temperature:N/ALower Explosion Limit:N/AUpper Explosion Limit:N/A

Density: 21.45 g/cm³ Water Solubility: N/A

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

No data available

Irritation and Corrosion

No data available

Sensitization Prolonged or repeated exposure may cause allergic reactions in certain

sensitive individuals.

Signs and Symptoms of

Exposure

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

Inhalation May be harmful if inhaled; may cause respiratory tract irritation

Skin May be harmful if absorbed through skin; may cause skin irritation

Eyes May cause eye irritation

Ingestion May be harmful if swallowed

Additional Information RTECS: TP2160000

12. ECOLOGICAL INFORMATION

Elimination Information

(Persistence and Degradability)

Ecotoxicity Effects

Further Information

No data available

No data available

No data available

13. DISPOSAL CONSIDERATIONS

Product 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.

Contaminated Packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name None

Non-Hazardous for Transport This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport Non-hazardous for air transport

15. REGULATORY INFORMATION

United States

SARA Listed No
TSCA Inventory Item Yes

Canada

WHMIS Classification This product has been classified in accordance with the hazard criteria of

the CPR, and the SDS contains all the information required by the CPR.

DSL Yes NDSL No

16. OTHER INFORMATION

Prepared By ISOFLEX USA

PO Box 29475

San Francisco CA 94129

United States

Issuing Date January 14, 2014

Revision Date August 1, 2021

Revision Number 2

Revision Note Required review and update

ISOFLEX USA's Commonly Used Abbreviations and Acronyms*

ACGIH American Conference of Governmental Industrial Hygienists

ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road

ALARA As Low As Is Reasonably Achievable

AMU Atomic Mass Unit

ANSI American National Standards Institute

BLS Basic Life Support
CAM Continuous Air Monitor

CAS Chemical Abstracts Service (division of the American Chemical Society)

CEN European Committee for Standardization

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CLP Classification, Labelling and Packaging (European Union)

CPR Controlled Products Regulations (Canada)

CWA Clean Water Act (USA)

DAC Derived Air Concentration (USA)

DOE United States Department of Energy (USA)
DOT United States Department of Transportation (USA)

DSL Domestic Substances List (Canada) EC50 Half Maximal Effective Concentration

EINECS European Inventory of Existing Commercial Chemical Substances

EHS Environmentally Hazardous Substance

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

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

General Disclaimer

For terms and conditions, including limitation of liability, please refer to the purchase agreement in effect between ISOFLEX USA (or any of its affiliates and subsidiaries) and the purchaser.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. ISOFLEX shall not be held liable for any damage resulting from handling or from contact with the above product.

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