



# SAFETY DATA SHEET

Preparation Date: 10/29/2019 Revision date 10/29/2019 Revision Number: G1

### 1. IDENTIFICATION

**Product identifier** 

Product code: P1918

Product Name: PLATINUM (IV) OXIDE

Other means of identification

**Synonyms:** No information available

CAS #: 12137-21-2
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

**Recommended use:**Uses advised against
No information available.
No information available.

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:Tom Tyner (USA - West Coast)Contact Person:Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Serious eye damage/eye irritation	Category 2A
Oxidizing solids	Category 2

### Label elements

Danger

Hazard statements

Causes serious eye irritation May intensify fire; oxidizer

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### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep/Store away from clothing and other combustible materials Take any precaution to avoid mixing with combustibles

### **Precautionary Statements - Response**

In case of fire: Use CO2, dry chemical, or foam to extinguish.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Platinum (IV) Oxide	12137-21-2	100

### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention. If symptoms persist, call a

physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Causes eye irritation

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### Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Water. CO2 may be of no value in extinguishing fires

involving oxidizers and may only provide limited control.

Unsuitable Extinguishing Media: Dry chemical. Foam. Halons.

Specific hazards arising from the chemical

Hazardous combustion products No information available.

Specific hazards Oxidizer. Keep away from combustible materials (wood,

paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or

when heated.

**Special Protective Actions for Firefighters** 

**Specific Methods:** For large fires, flood fire area with water from a distance

Cool affected containers with flooding quantities of water

Do not get water inside containers DO NOT use

combustible materials such as sawdust

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin,

eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid dust formation. DO NOT use combustible materials such as sawdust. Remove all sources of

ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Use appropriate tools

to put the spilled material in a suitable chemical waste disposal container. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean

up spill. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not ingest. Keep away from combustible material. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Do not store near combustible materials. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

### **Incompatible Materials:**

Strong oxidizing agents Strong reducing agents Combustible materials

Powdered metals

Organic materials

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

# National occupational exposure limits

#### **United States**

Component CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
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Platinum (IV) Oxide	12137-21-2	None	None	None	None
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#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Platinum (IV) Oxide	12137-21-2	None	None	None	None

### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Platinum (IV) Oxide	12137-21-2	None	None

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

### Individual protection measures, such as personal protective equipment

### **Personal Protective Equipment**

**Eye protection:** Goggles or Safety glasses with side-shields.

**Skin and body protection:** Chemical resistant apron

Gloves

Long sleeved clothing

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidPowder.Brown.

Odor: Taste Formula

No information available. No information available. No information available

Molecular/Formula weight (g/mole): Flammability (solid, gas)
No information available

Flashpoint (°C/°F):
No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available No information available No information available

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Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available 
No information available 
No information available

Specific gravity: pH Vapor pressure @ 20°C (kPa):

**Evaporation rate:**Vapor density:
No information available
VOC content (g/L):
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available 
No information available

# 10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Strong oxidizing agents

Strong reducing agents Combustible materials Powdered metals Organic materials

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:** 

Skin. Eyes. Inhalation.

# **Acute Toxicity**

### **Component Information**

Platinum (IV) Oxide	
CAS No	12137-21-2

LD50/oral/rat = 8000 mg/kg Oral LD50 Rat

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LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

### **Product Information**

LD50/oral/rat =

Value - Acute Toxicity = 8000 mg/kg

LD50/oral/mouse =

Value - Acute Tox = No information available

LD50/dermal/rabbit

Value - Acute Toxicity = No information available

LD50/dermal/rat

**VALUE - Acute Tox =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** Causes eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May cause digestive (gastointestinal) tract irritation.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable	Australia - Prohibited
					_	Carcinogenic	Carcinogenic

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						Substances	Substances
Platinum (IV) Oxide	12137-21-2	Not listed					

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

### 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Platinum (IV) Oxide	12137-21-2	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

**UN-No:** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Hazard Class 5.1

Product code: P1918 Product name: PLATINUM (IV) Page 8 / 12

Subsidiary Class No information available

Packing group: II Emergency Response Guide 140

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial Provisions62, IB8, IP2, IP4, T3, TP33Symbol(s):No information available

**Description:** UN1479, OXIDIZING SOLID, N.O.S., 5.1, II

TDG (Canada)

**UN-No:** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Hazard Class 5.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

**Description:** UN1479, OXIDIZING SOLID, N.O.S., 5.1, II

**ADR** 

**UN Number** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Transport hazard class(es) 5.1 Packing group

Subsidiary Risk: No information available

Special Provisions 274

**Description:** UN1479, OXIDIZING SOLID, N.O.S., 5.1, II

**IMDG** 

**UN-No:** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Hazard Class: 5.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 274, 900

Description UN1479, OXIDIZING SOLID, N.O.S. (PLATINUM (IV) OXIDE), 5.1, II

**RID** 

UN Number UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Transport hazard class(es) 5.1

Subsidiary Risk: No information available

Packing group II Special Provisions 274

**Description:** UN1479, OXIDIZING SOLID, N.O.S., 5.1, II

ICAO (air)

**UN-No:** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Hazard Class 5.1

Subsidiary Risk: No information available

Packing Group:

**Description:** UN1479, OXIDIZING SOLID, N.O.S., 5.1, II

Special Provisions A3

IATA

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**UN Number** UN1479

**Proper Shipping Name:** Oxidizing solid, n.o.s.

Transport hazard class(es) 5.1

Subsidiary Risk: No information available

Packing group II Precautionary Statements - 5L

Response

Special Provisions No information available

**Description:** UN1479, OXIDIZING SOLID, N.O.S., 5.1, II

### 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	China IECSC	Australia	EINECS-No.
				(PICCS)			(AICS)	
Platinum (IV) Oxide	12137-21-2	Not Listed	Not present	Not present	Not present	Not listed	Not listed	Not present

### **U.S. Regulations**

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	<b>Developmental Toxicity</b>	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Platinum (IV) Oxide	12137-21-2	Not Listed	Not Listed	Not Listed	Not Listed

### **CERCLA/SARA**

		_				
Component	CAS No	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
		Hazardous	Extremely	Extremely	Chemical Category	Reporting
		Substances and	Hazardous	Hazardous		de minimis
		their Reportable	Substances	Substances and		
		Quantities	and TPQs	RQs		
Platinum (IV) Oxide	12137-21-2	None	None	None	None	None

### U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals	TSCA 8(d) -Health and Safety
		With Significant New Use Rules	Reporting
		(SNURS)	
Platinum (IV) Oxide	12137-21-2	Not Applicable	Not Applicable

### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has not been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

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### **DSL/NDSL**

	CAS No	Canada (DSL)	Canada (NDSL)
Platinum (IV) Oxide	12137-21-2	Not Listed	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Platinum (IV) Oxide	12137-21-2	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Platinum (IV) Oxide	12137-21-2	Not listed

### **EU Classification**

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Platinum (IV) Oxide	12137-21-2	

### EU - CLP (1272/2008)

### R-phrase(s)

R 8 - Contact with combustible material may cause fire.

R36 - Irritating to eyes

# S -phrase(s)

S17 - Keep away from combustible material

S 7 - Keep container tightly closed.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

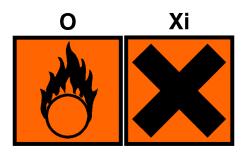
Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Platinum (IV) Oxide	12137-21-2		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

## Indication of danger:

O - Oxidising.

Xi - Irritant



# **16. OTHER INFORMATION**

 Preparation Date:
 10/29/2019

 Revision date
 10/29/2019

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Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

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