

Classified as hazardous according to criteria of EPA New Zealand

## **Section 1 - Identification**

Product Name Palladium, 5% on charcoal powder, Type 87L

Product Code 801466

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Recommended Use Laboratory chemicals.

# Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

4.2C - Spontaneously combustible substances: pyrophric substances: low hazard

Classified as hazardous according to criteria of EPA New Zealand

**GHS Classification** 

Physical hazards

Self-heating substances/mixtures

Category 2

**Health hazards** 

Based on available data, the classification criteria are not met

**Environmental hazards** 

Based on available data, the classification criteria are not met

<u>Label Elements</u> None required



Signal Word Warning

**Hazard Statements** 

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H252 - Self-heating in large quantities; may catch fire

## **Precautionary Statements**

P403 - Store in a well-ventilated place

P501 - Dispose of contents/ container to an approved waste disposal plant

Other information

# **Section 3 - Composition and Information on Ingredients**

Component	CAS No	Weight %			
Water	7732-18-5	50.0			
Carbon	7440-44-0	47.5			
Palladium	7440-05-3	2.5			

## **Section 4 - First Aid Measures**

**Inhalation** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically.

# **Section 5 - Fire Fighting Measures**

## **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Extinguishing media which must not be used for safety reasons

No information available.

## **Hazardous Combustion Products**

## **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

## Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **Section 6 - Accidental Release Measures**

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Emergency procedures

Ensure adequate ventilation.

### **Environmental Precautions**

Prevent further leakage or spillage if safe to do so.

#### Methods for Containment and Clean Up

Soak up with inert absorbent material. Sweep up and remove immediately. Keep wetted with water.

### **Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

# **Section 7 - Handling and Storage**

### **Precautions for Safe Handling**

Ensure adequate ventilation.

## Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

# **Section 8 - Exposure Controls and Personal Protection**

## **Exposure limits**

The product does not contain any hazardous materials with occupational exposure limits established.

## **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

## **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Personal protective equipment

**Eye Protection** Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard

AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Natural rubber, Nitrile	See manufacturers	-	AS/NZS 2161	(minimum requirement)
rubber, Neoprene, PVC.	recommendations			·

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

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and maintenance of repiratory protective devices

Recommended Filter type: Particulates filter conforming to EN 143 or Inorganic gases and vapours filter Type B Grey

(Air = 1.0)

conforming to EN14387 (or AUS/NZ equivalent)

Recommended half mask:- Particle filtering: EN149:2001 (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No information available.

# **Section 9 - Physical and Chemical Properties**

## Information on basic physical and chemical properties

Appearance Dark grey
Physical State Powder / Slurry

**Odor** Odorless

Odor Threshold
pH
No data available

Flash Point No data available Method - No information available

Evaporation Rate

Flammability (solid,gas)

No data available
No information available
No data available

**Explosion Limits** No data available

Vapor PressureNo data availableVapor DensityNo data available

Specific Gravity / Density

Bulk Density

Water Solubility

Solubility in other solvents

No data available
No data available
No information available
No information available

Partition Coefficient (n-octanol/water)

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

Other information

# **Section 10 - Stability and Reactivity**

Reactivity None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** Heat, flames and sparks.

Incompatible Materials None known.

Hazardous Decomposition Products None under normal use conditions.

Hazardous Polymerization No information available.

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# **Section 11 - Toxicological Information**

## Information on Toxicological Effects

### **Product Information**

(a) acute toxicity;

Oral No data available
Dermal No data available
Inhalation No data available

### Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Water	-	-	-		
Carbon	LD50 > 10000 mg/kg (Rat)				

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

**Respiratory**Skin
No data available
No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and No information available delayed

# **Section 12 - Ecological Information**

Ecotoxicity effects

Persistence and Degradability

No information available

**Degradability** Not relevant for inorganic substances.

Bioaccumulative Potential No information available

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**Mobility** No information available.

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

# **Section 13 - Disposal Considerations**

Waste from Residues/Unused

**Products** 

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

**Contaminated Packaging** 

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

Other Information

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations. Waste codes should be assigned by the user based on the application for which the product was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations.

# **Section 14 - Transport Information**

IMDG/IMO Not regulated

NZS 5433:2020 Not regulated

Component	Hazchem Code				
Carbon	1Y				
7440-44-0 ( 47.5 )					

IATA Not regulated

Environmental hazards No hazards identified

Special Precautions No special precautions required

Additional information None known

# **Section 15 - Regulatory Information**

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

Component	HSNO Approval Number				
Carbon	HSR001271				

International Inventories X = listed

Co	mponent	NZIoC	AICS	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	<b>ENCS</b>	ISHL	IECSC	KECL
	Water	X	Х	231-791-2	-	X	Х	-	Х	Х		Х	KE-35400
	Carbon	Х	Х	231-153-3	-	Х	Х	-	Х	Х		Х	KE-04671
Р	alladium	X	X	231-115-6	-	X	Х	-	Х	X		X	KE-27744

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requirements

Prohibition or notification/licensing Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

## **Section 16 - Other Information**

## This safety data sheet complies with the requirements of WorkSafe New Zealand Regulations

## Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**IECSC** - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

ICAO/IATA - International Civil Aviation Organization/International Air **Transport Association** 

MARPOL - International Convention for the Prevention of Pollution from

NZS 5433:2012 - Transport of Dangerous Goods on Land

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% WEL - Workplace Exposure Limit **DNEL** - Derived No Effect Level

POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

NZIoC - New Zealand Inventory of Chemicals

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical

Substances/EU List of Notified Chemical Substances **ENCS** - Japanese Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

Predicted No Effect Concentration (PNEC)

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

ADG Australian Code for the Transport of Dangerous Goods by Road and Rail

**OECD** - Organisation for Economic Co-operation and Development

LC50 - Lethal Concentration 50% ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

**BCF** - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

## Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data **Health Hazards** Calculation method **Environmental hazards** Calculation method

## **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

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## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of Safety Data Sheet**

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