

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-15

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# SECTION 1:Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Osmium powder
Product Number : O103951
Brand : aladdin
CAS-No. : 7440-04-2

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION

Address : 14078 Meridian Parkway,

Riverside, CA. 92518

Telephone : +1 (833) 552-7181 Fax : no data available

# 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300

CHEMTREC®, Outside the USA :

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

# 2.2 GHS Label elements, including precautionary statements

**Pictogram** 



Danger





Signal word

Hazard statement(s)

H228 Flammable solid
H315 Causes skin irritation

H318 Causes serious eye damage

H335 May cause respiratory irritation



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Precautionar	y statement(s)
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P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. -

No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/.../] equipment.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see ... on this label).
P302+P352 IF ON SKIN: wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use ... to extinguish.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an approved waste disposal plant.
P264+P265 Wash hands [and ...] thoroughly after handling. Do not touch eyes.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing.

P317 Get emergency medical help.

P332+P317 If skin irritation occurs: Get medical help.
P319 Get medical help if you feel unwell.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms : Osmium
Formula : Os
Molecular weight : 190.23
CAS No. : 7440-04-2
EC-NO. : 231-114-0

Component	Classification	Concentration
Osmium powder		
	no data available	PrimorTrace™,
		≥99.99% metals
		basis



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#### SECTION 4: First aid measures

# 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

no data available

#### In case of skin contact

In case of skin contact, rinse with soap and plenty of water.

#### In case of eye contact

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.

#### If swallowed

Rinse your mouth with water and then drink a large amount of water If symptoms appear, seek medical treatment

# 4.2 Most important symptoms and effects, both acute and delayed

no data available

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

no data available

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

#### Suitable extinguishing media

Water, Foam, Carbon dioxide (CO2), Dry powder

### Unsuitable extinguishing media

no data available

# 5.2 Special hazards arising from the substance or mixture

no data available

# 5.3 Advice for firefighters

If necessary, wear self-contained breathing apparatus for firefighting operations.

### 5.4 Further information

Water spray can be used to cool unopened containers.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

It is recommended that emergency responders wear air-carrying respirators, anti-static clothing, and rubber oil-resistant gloves. Do not touch or step over spillage. All equipment used during work should be grounded. Cut off sources of leaks as much as possible. Eliminate all ignition sources. The warning area is delineated according to the influence area of liquid flow, vapor or dust diffusion, and unrelated personnel are evacuated to the safe area from the crosswind and upwind directions.



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# 6.2 Environmental precautions

Do not allow the product to enter the sewer.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

No data available

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place.

# 7.3 Specific end use(s)

no data available

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# 8.2 Exposure controls

#### Appropriate engineering controls

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

#### Personal protective equipment

#### Eye/face protection

no data available

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU)2016/425 and the standard EN 374 derived from it.

#### **Body Protection**

no data available

# Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the



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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).

#### Control of environmental exposure

no data available

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

no data available a) Appearance b) Odour no data available c) Odour Threshold no data available Ha (b no data available 045 °C (5,513 °F) - lit. e) Melting point/freezing point 5,027 °C (9,081 °F) - lit. f) Initial boiling point and boiling range g) Flash point no data available h) Evaporation rate no data available i) Flammability (solid, gas) no data available

j) Upper/lower flammability or explosive

no data available limits k) Vapour pressure no data available I) Vapour density no data available 22.61 g/cm3 m) Relative density n) Water solubility no data available o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available q) Decomposition temperature no data available no data available r) Viscosity s) Explosive properties N no data available no data available t) Oxidizing properties N

# 9.2 Other safety information

no data available

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

no data available

# 10.2 Chemical stability

Stable under recommended storage conditions

# 10.3 Possibility of hazardous reactions

no data available



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#### 10.4 Conditions to avoid

no data available

# 10.5 Incompatible materials

oxygen,halogen,phosphorus

# 10.6 Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute toxicity

#### Skin corrosion/irritation

no data available

#### Serious eye damage/eye irritation

Causes eye burns.

#### Respiratory or skin sensitisation

no data available

#### Germ cell mutagenicity

germ cell mutagenesis

#### Carcinogenicity

There are no components in this product at levels greater than or equal to 0.1% that have been identified by IARC as possible or definite human carcinogens.

### Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure

no data available

#### Specific target organ toxicity - repeated exposure

no data available

#### **Aspiration hazard**

no data available

**Additional Information** 

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

no data available

# 12.2 Persistence and degradability



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No data available

# 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

no data available

#### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

# **SECTION 13:**

# 13.1 Disposal considerations

**Product** 

no data available

Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

DOT (US)

UN number: 3089 Packing group: II Class: 4.1

Proper shipping name: METAL Reportable Quantity(RQ): no data Poison Inhalation Hazard: No

POWDER, FLAMMABLE, N.O.S. available

(Osmium)

Environmental Hazards: No

**IMDG** 

UN number: 3089 Packing group: II EMS-No: No

Proper shipping name: METAL POWDER, FLAMMABLE, N.O.S. (Osmium)

**IATA** 

UN number: 3089 Packing group: II Class: 4.1

Proper shipping name: METAL POWDER, FLAMMABLE, N.O.S. (Osmium)

# **SECTION 15: Regulatory information**

# **SECTION 16: Other information**



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Prepared By Regulatory Affairs

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