

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-15

Print Date: 2025-09-21

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

#### 1.1 Product identifiers

Product name : Niobium
Product Number : N108765
Brand : aladdin

CAS-No. : 7440-03-1(powder)

# 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** 

Signal word Danger

Hazard statement(s)

H228 Flammable solid

H250 Catches fire spontaneously if exposed to air

Precautionary statement(s)

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. -

No smoking.

P222 Do not allow contact with air.



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P231 Handle under inert gas.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P335+P334 Brush off loose particles from skin. Immerse in cool water [or wrap in wet

bandages1.

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

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

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

#### 3.1 Substances

Synonyms : no data available

Formula : Nb Molecular weight : 92.91

CAS No. : 7440-03-1(powder)

EC-NO. : 231-113-5

Component	Classification	Concentration
Niobium		
	no data available	≥99.5% metals basis, ≥200目

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### General advice

no data available

#### If inhaled

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

# In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

no data available



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# 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

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

Unsuitable extinguishing media

no data available

# 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.- niobium oxides

# 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 5.4 Further information

no data available

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. < br/>

# 6.2 Environmental precautions

No special environmental precautions required.

# 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal. < br/>

#### 6.4 Reference to other sections

no data available

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. < br/>

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. < br/>

# 7.3 Specific end use(s)



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no data available

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

# 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice. <br/>

#### Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH <br/> <br/> <br/> (US) or EN 166(EU).<br/> <br/>

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching <br/>
<b

#### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the <br/>br/>specific work-place., The type of protective equipment must be selected according to the concentration and amount <br/>or/>of the dangerous substance at the specific workplace.<br/>br/>

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 <br/>
<br/>
<br/>
'(US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate <br/>
<br/>
appropriate <br/>
<br/>
| Spring | Spring

#### Control of environmental exposure

no data available

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

# 9.1 Information on basic physical and chemical properties

a) Appearance no data available b) Odour no data available c) Odour Threshold no data available d) pH no data available



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e) Melting point/freezing point	2468±10°C
f) Initial boiling point and boiling range	4742°C

g) Flash point no data available h) Evaporation rate no data available i) Flammability (solid, gas) no data available

i) Upper/lower flammability or explosive

no data available limits k) Vapour pressure no data available no data available I) Vapour density no data available 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 t) Oxidizing properties N no data available

# 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

# 10.4 Conditions to avoid

no data available

## 10.5 Incompatible materials

Strong bases, Strong oxidizing agents, Halogens

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- niobium oxides

# **SECTION 11: Toxicological information**



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# 11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified asprobable, possible or confirmed human carcinogen by IARC.ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen or potential carcinogen by ACGIH.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as aknown or anticipated carcinogen by NTP.OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen or potential carcinogen by OSHA.

#### 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** 

no data available

# **SECTION 12: Ecological information**

### 12.1 Toxicity

no data available

# 12.2 Persistence and degradability

no data available <br/>

# 12.3 Bioaccumulative potential

no data available <br/>

#### 12.4 Mobility in soil

no data available



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#### 12.5 Results of PBT and vPvB assessment

no data available <br/> <br/>

## 12.6 Other adverse effects

no data available

## **SECTION 13:**

# 13.1 Disposal considerations

**Product** 

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

no data available

# **SECTION 14: Transport information**

DOT (US)

UN number: 1383 Packing group: I Class: 4.2

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

METAL, N.O.S. (Niobium) available

Environmental Hazards: No

**IMDG** 

UN number: 1383 Packing group: I EMS-No: No

Proper shipping name: PYROPHORIC METAL, N.O.S. (Niobium)

**IATA** 

UN number: 1383 Packing group: I Class: 4.2

Proper shipping name: PYROPHORIC METAL, N.O.S. (Niobium)

# **SECTION 15: Regulatory information**

no data available

# **SECTION 16: Other information**

Prepared By Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com

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