

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-20

Print Date: 2024-01-26

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

#### 1.1 Product identifiers

Product name : Niobium
Product Number : N108764
Brand : aladdin
CAS-No. : 7440-03-1

### 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

Hazard statement(s)

H250 Catches fire spontaneously if exposed to air

Precautionary statement(s)

P222 Do not allow contact with air.
P231 Handle under inert gas.
P422 Store contents under ...

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



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

#### 3.1 Substances

Synonyms : no data available

Formula : Nb

Molecular weight : 92.91

CAS No. : 7440-03-1

EC-NO. : 231-113-5

Component	Classification	Concentration
Niobium		
	no data available	powder,99.95% metals basis,≥325mesh

#### **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

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 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.



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Unsuitable extinguishing media

no data available

#### 5.2 Special hazards arising from the substance or mixture

niobium oxides

#### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

Use water spray to cool unopened containers.

#### 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

Prevent further leakage or spillage if safe to do so.Do not let product enter drains

## 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

For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. For precautions see section 2.2

## 7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Storage class (TRGS 510): Pyrophoric and self-heating hazardous materials

#### 7.3 Specific end use(s)

no data available

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

#### 8.1 Control parameters



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### 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

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH <br/><br/><br/><br/><

Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching <br/>
br/>gloves outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in <br/>
br/>accordance with applicable laws and good laboratory practices.Wash and dry hands.<br/>
br/>Full contact <br/>
br/>Material: Nitrile rubber <br/>
br/>Material tested:Dermatril? (KCL 740 / Aldrich Z677272, Size M) <br/>
br/>Splash protection <br/>
br/>Material: Nitrile rubber <br/>
br/>Minimum layer thickness: 0.11 mm <br/>
br/>Break through time: 480 min <br/>
br/>Break through time: 480 min <br/>
br/>Aldrich - 262781 Page 3 of 6 <br/>
br/>Material tested:Dermatril? (KCL 740 / Aldrich Z677272, Size M) <br/>

br/>data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 <br/>
br/>If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the <br/>
br/>supplier of the CE approved gloves.This recommendation is advisory only and must be evaluated by an Industrial <br/>
br/>Hygienist familiar with the specific situation of anticipated use by our customers.It should not be construed as <br/>
br/>
Body Protection

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

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 <br/>
N95 <br/>
(US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate <br/>
\*\*exportant of the component standards such as NIOSH (US) or CEN (EU). <br/>
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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 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



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i) Flammability (solid, gas) no data available

j) Upper/lower flammability or

explosive limits no data available k) Vapour pressure no data available no data available I) Vapour density m) Relative density no data available n) Water solubility no data available o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available no data available q) Decomposition temperature 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

Reacts violently with water.

## 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, Oxygen

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity
no data available
Skin corrosion/irritation



#### 14078 Meridian Parkway, Riverside, CA. 92518

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

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

#### 12.5 Results of PBT and vPvB assessment

no data available <br/><br/>

#### 12.6 Other adverse effects

no data available

## **SECTION 13:**



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#### 13.1 Disposal considerations

**Product** 

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

Contaminated packaging

Dispose of as unused product.

## **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 data

metals, n.o.s., (Niobium) available available

Environmental Hazards: No

**IMDG** 

UN number: 1383 Packing group: I EMS-No: no data available

Proper shipping name: Pyrophoric metals, n.o.s., (Niobium)

IATA

UN number: 1383 Packing group: I Class: 4.2

Proper shipping name: Pyrophoric metals, n.o.s., (Niobium)

# **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **SECTION 16: Other information**

Regulatory Affairs

Prepared By ALADDIN SCIENTIFIC CORPORATION

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