



SAFETY DATA SHEET

Revision date 16-July-2020

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

CAS No.	7440-03-1
Product Name	Niobium powder
Molecular Formula	Nb

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

Recommended use	Alloy product manufacture.
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Details of the supplier

Company name	Hunan Huawei Jingcheng Material Technology Co., Ltd.
Address	Room 516, Hunan International Business Center, Jintai Plaza, East Second Ring, Furong District, Changsha City, Hunan Province, China.
Website	www.hnjc-metal.com
Telephone	0086-731-85124338
Fax	86-731-82295252

Emergency telephone number

0086-731-85124338

Section 2: HAZARDS IDENTIFICATION

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

GHS label elements not applicable

Hazard pictograms not applicable

Signal word danger

Hazard statements Flammable solids

Precautionary statements

Wear protective gloves/protective clothing/eye protection

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

If dust clouds can occur, use explosion-proof electrical/ ventilating/lighting/equipment

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

None

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: powder

CAS No.:7440-03-1

Description: Niobium

Section 4: FIRST AID MEASURES

Description of first aid measures

If inhaled

If excessive amounts of smoke, fume, or particulate are inhaled during processing, remove to fresh air and consult a qualified health professional.

In case of skin contact

None under normal use conditions.

Hunan Huawei Jingcheng Material Technology Co., Ltd. www.hnjc-metal.com

In case of eye contact

In the case of particles coming in contact with eyes during processing, treat as with any foreign object.

If swallowed

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

None anticipated

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES**Extinguishing media Suitable**

Isolate large fires and allow to burn out. Smother small fires with salt (NaCl) or class D dry powder fire extinguisher.

Special hazards arising from the substance or mixture

Intense heat. Very fine, high surface area material resulting from grinding, buffing, polishing, or similar processes of this product may ignite spontaneously at room temperature. **WARNING:** Fine particles of this product may form combustible dust-air mixtures. Keep particles away from all ignition sources including heat, sparks, and flame. Prevent dust accumulations to minimize combustible dust hazard.

Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Further information

No data available

Section 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required.

Environmental precautions

Collect spillage to prevent release to the environment.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Sweep or shovel material into dry containers. Avoid creating uncontrolled dust.

Section 7: HANDLING AND STORAGE**Precautions for safe handling**

Very fine, high surface area material resulting from grinding, buffing, polishing, or similar processes of this product may ignite spontaneously at room temperature. **WARNING:** Fine particles of this product may form combustible dust-air mixtures. Keep particles away from all ignition sources including heat, sparks, and flame. Prevent dust accumulations to minimize combustible dust hazard.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). For long-term storage, keep sealed in argon-filled steel drums.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure controls****Appropriate engineering controls**

Avoid generation of uncontrolled particles.

Personal protective equipment**Eye/face protection**

When airborne particles may be present, appropriate eye protection is recommended. For example, tight-fitting goggles, foam-lined safety glasses or other protective equipment that shield the eyes from particles.

Skin protection

Fire/flame resistant/retardant clothing may be appropriate during hot work with the product.

Respiratory protection

When particulates/fumes/gases are generated and if exposure limits are exceeded or irritation is experienced, proper approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

- a) Appearance: powder
- b) Odor: Odorless
- c) Odor Threshold: no data available
- d) pH: no data available
- e) Melting point/freezing point: 2470 °C / 4480 °F
- f) Initial boiling point and boiling range: no data available
- 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 limits: no data available
- k) Vapor pressure: no data available
- l) Vapor density: no data available
- m) Relative density: N/A
- n) Water solubility: insoluble
- o) Partition coefficient - noctanol/water: no data available
- p) Auto-ignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Viscosity: no data available
- s) Explosive properties: no data available
- t) Oxidizing properties: no data available

Other safety information

No data available

Section 10: STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible Conditions	Strong oxidizing agents
Hazardous Decomposition Products	Hazardous polymerization does not occur

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity: no data available

Inhalation: no data available **Dermal:** no data available

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagen city : no data available

Carcinogenicity: Product not classified.

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard : no data available

Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available.
Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.
Results of PBT and vPvB assessment	No information available.
Other adverse effects	No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

DOT (US)

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Section 15: REGULATORY INFORMATION

SARA 313 Components

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazards

Acute health hazard No

Chronic Health Hazard No

Fire hazard Yes

Sudden release of pressure hazard No

Reactive Hazard No

Section 16: OTHER INFORMATION

Disclaimer

The information provided in this Material 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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