



# SAFETY DATA SHEET

Revision date 16-July-2020

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

### Product Identifier

CAS No.	12069-94-2
Product Name	Niobium carbide
Molecular Formula	NbC

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

Recommended use	Laboratory chemicals, Manufacture of substances
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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	<a href="http://www.hnjc-metal.com">www.hnjc-metal.com</a>
Telephone	0086-731-85124338
Fax	

### Emergency telephone number

Chemtrec  
0086-731-85124338

## Section 2: HAZARDS IDENTIFICATION

Signal Word: Warning



Hazard Statements: H228: Flammable solid

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P240: Ground/bond container and receiving equipment  
P241: Use explosion-proof electrical/ventilating/light/equipment P370+P378: In case of fire: Use CO<sub>2</sub> or powder for extinction

HMIS Health Ratings (0-4):

Health:	1
Flammability:	2
Physical:	1

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances

CAS No.: 12069-94-2

Description: Niobium carbide

Hunan Huawei Jingcheng Material Technology Co., Ltd. [www.hnjc-metal.com](http://www.hnjc-metal.com)

## **Section 4: FIRST AID MEASURES**

### **Description of first aid measures**

**General information:** No special measures required.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Immediately rinse with water.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## **Section 5: FIRE FIGHTING MEASURES**

**Extinguishing media:** Do not use water for metal fires.

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder.

**Special hazards arising from the substance or mixture:** Dust can form an explosive mixture in air. Keep product and empty container away from heat and sources of ignition..

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:**No data available

## **Section 6: ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### **Reference to other sections**

For disposal see section 13.

## **Section 7: HANDLING AND STORAGE**

### **Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

### **Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

### **Specific end use(s)**

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

Contains no substances with occupational exposure limit values.

**Components with limit values that require monitoring at the workplace:** Not required.

### **Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Personal protective equipment**

##### **Eye/face Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### **Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

##### **Respiratory Protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

##### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

##### **Control of environmental exposure**

Do not let product enter drains.

### **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

- a) Form: Powder
- b) Color: Gray
- c) Odor: no data available
- d) Odor Threshold: no data available
- e) pH: no data available
- f) Melting point: 3500 ° C/ 6332 ° F
- g) Initial boiling point and boiling range: no data available
- h) Flash point: no data available
- i) Evaporation rate: no data available
- j) Flammability (solid, gas): no data available
- k) Upper/lower flammability or explosive limits: no data available
- l) Vapor pressure: no data available
- m) Vapor density: no data available
- n) Relative density: no data available
- o) Water solubility: insoluble
- p) Partition coefficient - noctanol/water: no data available
- q) Auto-ignition temperature: no data available
- r) Decomposition temperature: no data available
- s) Viscosity: no data available
- t) Explosive properties: no data available
- u) Oxidizing properties: no data available

##### **Other safety information**

No data available

### **Section 10: STABILITY AND REACTIVITY**

**Reactivity** No further relevant information available.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** No data available.

**Conditions to avoid** Strong oxidizing agents.

**Incompatible materials:** No data available.

**Hazardous decomposition products:** No data available.

### **Section 11: TOXICOLOGICAL INFORMATION**

#### **Information on toxicological effects**

##### **Acute toxicity:**

### Potential Health Effects:

Eyes:	Causes irritation
Skin:	Causes irritation
Ingestion:	May cause irritation
Inhalation:	May cause irritation
Chronic:	Niobium compounds have caused liver damage in animal studies. Niobium metal has caused kidney damage in experimental animals and fibrogenic effects on the lungs of experimental animals.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	N/A

### 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

Recommendation: Disposal must be made according to official regulations

#### Contaminated packaging

Recommendation: Disposal must be made according to official regulations.

### Section 14: TRANSPORT INFORMATION

Hazardous: Hazardous for transportation.



Hazard Class:	4.1 Flammable solids, self-reactive substances and solid desensitized explosives
Packing Group:	III
UN Number:	UN3178
Proper Shipping Name:	Flammable solid, inorganic, n.o.s. (Niobium carbide)

### Section 15: REGULATORY INFORMATION

#### SARA

Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No

### Section 16: OTHER INFORMATION

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

#### 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**