



MATERIAL SAFETY DATA SHEET

1. Chemical product and Company identification

Name of manufacturer	SUZHOU SANGUANG SCIENCE&TECHNOLOGY CO.,LTD
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Name of Section	Quality technology dept.
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Date	April 15, 2019
Product name	Molybdenum Wire

2. Composition / Information on ingredients

The distinction of the single product / mixture	A single product
A chemical name	Molybdenum
An ingredient and content	
A chemical formula or a constitutional formula	Mo
CAS No.	7439-98-7
UN classification and UN number	It does not fall under a dangerous harmful thing.

3. A dangerous noxious abstract

The classifications such as chemical substances	It does not fall under a classification standard for a sintering body.
Dangerous property	There is not danger for a sintering body. But it reacts intensely with a strong acid material when it is the powder.
Hazardous property	There is not hazardous for a sintering body. But inhalation is toxic, and the powder shows a health obstacle in the chronic toxicity, high density revelation.
Environmental influence	There is not it for a sintering body. But the powder may give the habits toxicity.

4. An emergency step

When it is in the eyes	When the dust such as shavings is in the eyes, wash the eyes by a clean current and receive a medical advice if necessary.
When it sticks to skin	When the dust such as shavings stuck to skin, wash it with soap and water promptly. When exanthem is seen, take a medical advice. If it makes hurt, wash it neatly and completely remove the dust such as shavings which was in the wound. Receive treatment for the doctor if necessary.
When it is absorbed	When the dust such as shavings is inhaled, gargle promptly and take a medical advice if necessary.
When it is swallowed	Drink a large quantity of water promptly and spit it out. Take a medical advice if necessary.

5. A step at the time of the fire

A fire extinguishing method	Extinguish a fire with fire extinguishing agent.
Extinguishant	It is incombustibles, but water is effective in the case of the dust such as shavings. Use extinguishant suitable for circumstances.

6. A step at the time of the leakage

When the dust such as shavings occurred at the time of processing, it is applied. Sweep it as much as possible and gather and collect it and wash it away with water afterwards.

7. The handling and attention in the safekeeping

The handling	Avoid the place of the high temperature, a high temperature thing, spark, the flame. When dust occurs by sharpening it the handling at a good place of the ventilation. Do not breathe in dust.
Safekeeping	The storage performs suitable ventilation and keeps it in the cool and dark space and avoids fire.

8. Prevention of revelation and a protection step

Management density	It is not set
Permission density	There is no rule for wire. Take the following values into account when the dust such as shavings occurs. ACGIH(1995-1997) (TLV) :5mg/m ³ OSHA(1993)(PEL) :5mg/m ³
The measures with facilities	Install a ventilating device not to surpass a level of TLV when the dust such as shavings occurs.
Tools for protection	When the dust such as shavings occurs, wear protection gloves, protection glasses, a dust protective mask. Wear protection clothes, a crash hat, safety boots if necessary.

9. Physical and chemical properties

The appearance	A solid of the silver-white color
Boiling point	4,827 °C
Melting point	2,620 °C
The combustibility	It is not known for wire. When the dust such as shavings occurs, it may catch fire in firing source such as heat, a spark, the fire.
Ignition characteristics	It is not known for wires When the dust such as shavings occurs, it may catch fire when the minute powder heats in the air.
Explosiveness	Unknown
Volatility	8.533×10^{-7} Pa (1,500°C)
Specific gravity	10.2
Solubility (water)	Indissolubility

10. Stability and reactivity

Stability	The reactivity to become a problem such as spontaneous combustion characteristics, reactivity with the water is not seen for wire, but the oxidation already begins at normal temperature among the air , and the oxidation considerably advances with about 400°C.
Dangerous reaction	It is not known for wires . But its powder reacts intensely when it is mixed with a strong acid material.

11. Noxious information

Acute toxicity	For molybdic acid ammonium, Rat oral LD50 =333mg/kg For oxidation molybdenum, Rat oral LD50 =125mg/kg About the intake of the person, NOAEL (greatest non-toxicity-related quantity) =2mg/L
A local effect	Unknown
Sensitization characteristics	Unknown
The chronic toxicity / long-term toxicity	As the inhalation toxicity, there is a report of the outbreak of the pneumoconiosis in the workplace of the metal molybdenum and oxidation molybdenum. In the chronic revelation, there is a report of the outbreak of hyperuricacidemia and the gout.
Carcinogenicity	Unknown
Teratogenicity	Unknown
The toxicity to the reproduction	According to the chromosome aberration examination, it shows positive with a rat (the straight body, inhalation).

12. Environmental influence information

Mobility	Unknown
Residual property / resolvability	Unknown
Bioaccumulation characteristics	Though 90% of molybdenum consumed in comparison with the other animals late are excreted, absorption / the excretion of the molybdenum in the person needs it for about 7 days.
The habits toxicity	That it causes poisoning (tart disease) is reported that a cow or a pig eats grass including the molybdenum of the high density with.

13. Attention in the disposal

Follow the waste regulations system of the area, as for the process of the proper scrapping, recycle, reclamation about the waste.

14. Attention in the transportation

There is nothing special.

15. Application laws and ordinances

There are no application laws and ordinances.