



Material Safety Data Sheet

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

1. Product identifiers

Product name : NiCr Alloy Powder

EC No: N.A.

CAS No.:N. A.

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

Identified uses: Scientific research and development

1.3 Supplier details of the safety data sheet

Company: Qingdao Metal3DP Technology Co., Ltd

ADD: NO.26 ZHNEGYANG MIDDLE ROAD,CHENGYANG DISTRICT,QINGDAO CITY,SHANDONG PROVINCE

Tel:0532-66851625

Email: info@met3dp.com

SECTION 2: Hazards identification

Emergency overview: Not available.

Potential health effects: Not available

Eye may cause eye irritation: Use water to wash if the product enters your eyes.

Skin may cause skin irritation: Use water to wash if the product contacts the skin.

Ingestion may cause irritation of the digestive tract: No.

Inhalation may cause respiratory tract irritation: No.

SECTION 3: Composition/information on ingredients

ELEMENT	WT%	CAS NUMBER	NOTE
Nickel	70-80	7440-02-0	
Chromium	15-25	7440-47-3	
Iron	≤1.0	7439-89-6	
Molybdenum	10-15	7439-98-7	
Manganese	≤1.0	7439-96-5	
Carbon	≤0.10	7440-44-0	
Silicon	≤1.0	7440-21-3	
Aluminum	≤5	7429-90-5	

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

This product in the solid form to be nonhazardous. However, operations such as abrading, burning, welding, sawing, brazing, grinding, cutting, polishing, and machining that results in the creation of dust or elevated temperatures may cause eye, skin, and respiratory tract irritation.

If inhaled

Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult, and seek medical attention if irritation persists..

In case of skin contact

Remove contaminated clothing but do not shake clothing, brush material off skin, and wash affected area with mild soap and water. If irritation persists, seek medical attention. Skin cuts and abrasion can be treated by first aid.

In case of eye contact

Flush eyes for at least 15 minutes, including under upper and lower eyelids with lukewarm water. If irritation persists seek medical attention. Do not allow victim to rub eyes or to keep eyes tightly shut.

If swallowed

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

Ingestion

Never give anything by mouth to someone who is unconscious or convulsing. DO NOT induce vomiting. If conscious and alert, rinse mouth and drink 2 to 4 cups of milk or water. Get immediate medical attention.

Notes to Physician

Individuals with Wilson's disease are more susceptible to chronic copper poisoning. Because of their high densities, super alloys may produce striking abnormalities in chest X-rays.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire

Flammability Rating

Non -Flammable

Fire and Explosion

Finely divided material such as dust, shaving, etc. may be ignited by heat, sparks or flames. May burn rapidly with flare burning effect. Fire may produce irritating or poisonous gases. High concentration of airborne dust in an enclosed area can explode or burn if exposed to a source of ignition. If dust cloud forms, immediately eliminate all possible sources of ignition such as sparks, open flames, etc. Working with this material can produce heat and sparks, which may ignite flammable material and vapors in the work place. Use of water on finely divided material may cause explosive hydrogen gas and heat to be evolved.

Fire extinguishing Media

Use suitable extinguishing media for surrounding materials and type of fire. Powder fires should be extinguished with a class D extinguisher, dry sand or dry dolomite, or other metal fire extinguishing agents.

Incompatibility (Materials to avoid)

Reacts with strong acids to produce hydrogen gas.

Hazardous Decomposition Products

Metal Oxide fume.

Hazardous Polymerization

Will not occur.

Special Information

Metal dust particles in the air can present an explosion hazard. If dust cloud forms, immediately eliminate all possible sources of ignition. Such as sparks, open flames, etc.

Working with this material can produce heat and sparks, which may ignite flammable materials and vapors in the workplace.

SECTION 6: Spill or leak procedures

Evacuation Procedures and Safety: Notify safety or health physics personnel, evacuate all non-essential personnel and provide adequate ventilation. Clean up personnel need protection against contact with inhalation of dust or oxides. Prevent skin contact. Wearing full protective clothing/equipment, scoop up spilled powder into suitable containers for disposal.

Containment of Spills: Spills should be contained if it can be done without risk.

Clean up and Disposal of Spill: Use non-sparking/anti-static containers, tools, and equipment. Do not push powder long distances across the floor. Dust cleaning methods recognized by NFPA include vacuum cleaning, sweeping, and water wash-down. Blow downs using compressed air are more likely to result in dust dispersion and shall not be permitted unless other methods result in greater personal risk. Keep in small piles away from each other. Keep material away from plant trash and other combustible material. Follow all applicable Federal, state and local regulations governing the disposal of materials.

Environmental: Airborne emissions, spills and releases to the environment (discharge to streams, sewer systems, groundwater, surface soil, etc.) should be controlled immediately.

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.

7.2 Precautions for storage

Keep containers tightly closed.

Keep containers in a dry, cool and well-ventilated place.

Store in vacuum package

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle according to good industrial hygiene and safety practices. Use of local exhaust and / or good general ventilation should be sufficient. Wash hands before each cut and at the end of the work day.

Personal protective equipment

Wear appropriate protective gloves and clothing to prevent skin exposure.

Wear appropriate protective glasses to prevent eyes exposure.

Control of environmental exposure

No special environmental precautions required.

SECTION 9: Physical and chemical properties

- a) Appearance : form: powder; color: gray
- b) Odor : slight odor
- c) Odor Threshold :No data available
- d) PH : No data available
- e) Melting point/freezing point :No data available
- f) Initial boiling point and boiling range :No data available
- g) Flash point : no data available
- h) Evaporation rate : no data available

- i) Flammability: no data available
- j) Upper/lower flammability or explosive limits : No data available
- k) Vapor pressure : no data available
- l) Vapour density : no data available
- m) Relative density (Water =1): 7.5-8 g/cm³ at 25°C
- n) Solubility: Insoluble in water
- o) n-Octanol/Water partition coefficient: no data available
- p) Auto-ignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Kinematic viscosity: no data available
- s) Explosive properties: no data available
- t) Oxidizing properties: no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under proper operation and storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Titanium/titanium oxides

Other decomposition products - No data available

In the event of fire: see section 5.

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 mutagenicity

No data available

Carcinogenicity

No data available

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

RTECS: not available

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

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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)

Not regulated

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

IMDG/IMO

Not regulated

IATA

Not regulated

RID

Not regulated

ADR

Not regulated

ADN

Not regulated

SECTION 15: Regulatory information

Not regulated

SECTION 16: Other information

Not regulated

Disclaimer

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. This information relates to the specific material designed and may not be valid for such material used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

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Revision Date: 11/14/2025

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