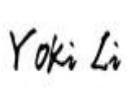




MATERIAL SAFETY DATA SHEET

Report No.:	GTC241006M002	<i>Page 1 of 7</i>	
Client:	DEZHOU XINGYE METALTECH CO., LTD. NOTH LEPU RD. DEVELOPMENT ZONE OF DEZHOU CITY, SHANDONG PROVINCE		
Manufacture	DEZHOU XINGYE METALTECH CO., LTD. NOTH LEPU RD. DEVELOPMENT ZONE OF DEZHOU CITY, SHANDONG PROVINCE		
Test item:	TUNGSTEN ELECTRODE		
Type/Mode:	WP,WC20,WT20,WL10,WL15,WL20,WZ3,WZ8,WY20,WX,WE3		
Date of receipt:	Otc.06, 2024	Trade mark:	N/A
Receipt No.:	GTC241006M002		
Testing location:	Geometry Test certification (Shenzhen) Co., Ltd 1st floor, building 6, xinshaosheng Industrial Park, Yonghe Road, Fuhai street, Bao'an District, Shenzhen, China, 518103		
Testing Laboratory:	Geometry Test certification (Shenzhen) Co., Ltd 1st floor, building 6, xinshaosheng Industrial Park, Yonghe Road, Fuhai street, Bao'an District, Shenzhen, China, 518103		
tested by:			reviewed by:
Otc. 06, 2024	Yoki Li/ Project Engineer	Otc. 28, 2024	Antoy Yu/ Reviewer
Date	Name/Position Signature	Date	Name/Position Signature
Factory	DEZHOU XINGYE METALTECH CO., LTD. NOTH LEPU RD. DEVELOPMENT ZONE OF DEZHOU CITY, SHANDONG PROVINCE		
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.			



1. Chemical Product and Company Identification

Name of goods :	TUNGSTEN ELECTRODE
Type/Mode :	WP,WC20,WT20,WL10,WL15,WL20,WZ3,WZ8,WY20,WX,WE3
Applicant :	DEZHOU XINGYE METALTECH CO., LTD. NOTH LEPU RD. DEVELOPMENT ZONE OF DEZHOU CITY, SHANDONG PROVINCE
Factory :	DEZHOU XINGYE METALTECH CO., LTD. NOTH LEPU RD. DEVELOPMENT ZONE OF DEZHOU CITY, SHANDONG PROVINCE
Contact person :	784958117@qq.com
Emergency Telephone Number:	+86 18865816188
E-mail :	Zhang shijie

Chemical Composition	CAS Number	Concentration(%)
TUNGSTEN	RARE EARTH OXIDE	97.8-99.2
RARE EARTH OXIDE	/	0.8-2.2

3. Hazards Identification

Preparation hazards and classification	GHS Hazardous category: non-hazardous substances or mixtures.
Medical Conditions Aggravated by Exposure	Not applicable
invasion route	Ingestion , inhalation
Explosive danger	This product is flammable and irritating
This product is flammable and irritating	This product is irritating to the eyes and skin.

4. First aid measures

Inhalation	Leave the scene to the fresh air.Keep airway clear.If breathing is difficult, give oxygen. Go to a doctor.
Skin contact	Not considered to have any adverse properties affecting skin. No need for first aid is anticipated.
Eye contact	Lift the eyelid and flush with running water or saline.Go to a doctor.
Ingestion	Drink enough warm water to induce vomiting.Gastric lavage.Go to a doctor.

5. Fire-fighting measures

Flammable Properties	Its powder can burn at high temperature and open flame.
Suitable extinguishing Media	Dry powder, foam, sand.
Unsuitable extinguishing Media	None known
Explosion Data	Not applicable



Specific Hazards arising from the chemical	Incombustible. No special fire and explosion hazard
Protective Equipment and precautions for firefighters	As in any fire, Wear self-contained breathing apparatus and full protective gear for firefighting if necessary

6. Accidental Release Measures

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Personal Precautions, protective equipment, and emergency procedures	No special requirements
Environmental Precautions	No special environmental precautions required.
Methods and materials for Containment	Pick up and arrange disposal without creating dust. Clean up as method of household spillage and waste.

7. Handling and Storage

Handling	Operators must be specially trained and strictly abide by the operating procedures. It is recommended that the operator wear a self-priming filter dust mask, chemical safety glasses, protective work clothes, and rubber gloves. Keep away from fire and heat. No smoking in the workplace. Use explosion-proof ventilation systems and equipment. Avoid producing dust. Avoid contact with oxidants and halogens. When handling, light loading and unloading should be done to prevent damage to packaging and containers. Equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment. Empty containers may have harmful residues.
Storage	Store in a cool, ventilated warehouse. Keep away from fire and heat. It should be stored separately from oxidants and halogens, and should not be mixed. Equipped with the corresponding variety and quantity of fire equipment. Storage areas should be equipped with suitable materials to contain leaks.

8. Exposure Controls/Personal Protection

maximum acceptable concentration	China MAC: 6mg/m ³ Soviet MAC: 6mg/m ³ American TLV-TWA: ACGIH 1m.
Engineering Controls	Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.
Personal Protective Equipment	General control and prevention: Where special control and handling procedures are not required, it is recommended to provide good ventilation, such as local exhaust, effective suppression and personal cleaning to minimize exposure to inhalable substances. Eyes/face: Wear safety glasses
Other Protective Equipment	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	No smoking and eating in the workplace. Maintain good hygiene.

9. Physical and Chemical Properties

Physical State	Form: Solid, metal rod, silver color	
pH, with indication of the concentration	Not applicable	
Melting point/freezing point	3410°C	



Boiling Point, initial boiling point and Boiling range:	5900°C
Flash Point	Not applicable
Upper/lower flammability or explosive limits	Not available.
Vapor Pressure:	Not applicable
Vapor Density: (Air = 1)	Not applicable
Vapor Density: (water = 1)	19. 3(20°C)
Density/relative density	Not applicable
Solubility in Water	Insoluble in water
solubleness	Soluble in nitric acid, hydrofluoric acid.
Molecular Weight	Not applicable
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Odour threshold	Not available.
Evaporation rate	Not available.
Flammability (soil, gas)	Not applicable
Viscosity	Not applicable

10. Stability and Reactivity

Stability	Stable under normal temperature conditions and recommended use.
Conditions to Avoid (e.g. static discharge, shock or vibration)	No know.
Incompatible Materials	Strong oxidizing agent, halogen.
Hazardous Decomposition Products	Other decomposition products-no data available. In the event of fire: see section 5.
Possibility of Hazardous Reaction	None hazardous reactions known under normal condition.

11. Toxicological information

Acute Toxicity:	LD50 Oral - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 5.4 mg/l (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2,000 mg/kg (OECD Test Guideline 402) No data available
Skin Corrosion/Irritation:	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Serious Eye Damage/ Eye Irritation:	Eyes - Rabbit Result: Mild eye irritation (OECD Test Guideline 405)
Respiratory or Skin Sensitization:	Eyes - Rabbit Result: Mild eye irritation (OECD Test Guideline 405)
Germ Cell Mutagenicity:	Base on available data, the classification criteria are not met.
Carcinogenicity:	None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA



Reproductive Toxicity:	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity-Single	Based on available data, the classification criteria are not met.
Exposure (Globally Harmonized System):	
Specific Target Organ Toxicity-Repeated:	Based on available data, the classification criteria are not met
Exposure (Globally Harmonized System):	
Aspiration Hazard:	Based on available data, the classification criteria are not met.
Potential Health Effects:	
Inhalation:	No significant effect or harm under normal condition.
Skin Contact:	No irritation effects under normal condition.
Eye Contact:	No irritation effects under normal condition.
Ingestion:	Not expected to be hazardous following ingestion.

12. Ecological information	
Waste treatment methods	
Product:	Non hazardous waste. Small quantity can be disposed as household waste As for big quantity, Observe according to the national and local related regulations,
Contaminated Packaging	Dispose of as unuse prouct.

13. Disposal consideration	
Waste treatment methods	
Product	Smaller quantities can be disposed of with household waste. As for big quantity, observe all federal, state, and local environmental regulations.
Contaminated Packaging	Dispose of contents/containers in accordance with local regulations.

14 . Transport Information	
<p>UN No. Dangerous goods No. (UN No.):Not dangerous goods.</p> <p>UN Shipping Name:No data</p> <p>UN Hazard Classification:Not dangerous goods.</p> <p>Packaging category:Not dangerous goods.</p> <p>Packaging method:Packaging shall be carried out according to the method recommended by the manufacturer, such as open steel barrel. Ordinary wooden box outside the ampoule. Screw mouth glass bottle, iron cap pressure mouth glass bottle, plastic bottle or ordinary wooden box outside metal barrel (can), etc.</p> <p>Marine pollutants (yes/no):no</p> <p>Precautions for transportation:Transport vehicles shall be equipped with fire fighting equipment of corresponding types and quantities and leakage emergency treatment equipment.</p> <p>It is strictly prohibited to mix with oxidants, edible chemicals, etc.</p> <p>The exhaust pipe of the vehicle carrying this item must be equipped with a fire retardant device.</p> <p>When using tank (tank) trucks for transportation, there should be a grounding chain, and a hole partition can be set in the tank to reduce static electricity generated by vibration.</p> <p>It is prohibited to use mechanical equipment and tools that are easy to generate sparks for loading and unloading.</p> <p>It is better to transport in the morning and evening in summer.</p>	



During transportation, it shall be protected from exposure to sun, rain and high temperature.
 Keep away from kindling, heat source and high temperature area during stopover.
 Road transportation shall be carried out according to the specified route, and shall not stay in residential areas and densely populated areas.
 It is forbidden to slip during railway transportation.
 It is strictly prohibited to use wooden ships or cement ships for bulk transportation.
 Danger signs and announcements shall be posted on the means of transport according to relevant transport requirements.
 ICAO/IATA: The meaning of the transport regulations is not classified as hazardous.
 Transportation Note: Shipment to complete the packing, loading should be conservative. Transport process to ensure that the container does not leak, did not collapse, did not fall, no damage. Strictly prohibited and oxidants, acids, halogens, etc. mixed mixed operation. Transit should be anti-exposure, rain, high temperature.
 Transportation Note:

15. Regulation information

EU Regulations
 Classification according to Regulation (EC) No 1272/2008 [BU-GHS/CLP]
 US Regulations
 OSHA: OSHA Hazard Communication Standard Status: This product is not considered to be a hazardous substance under OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200.
 USA CERCLA:
 CERCLA Reportable Quantity (RQ): This product has not been assigned a reportable quantity. USA
 SARA
 SARA 302 Components
 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
 SARA 313 Components (Specific toxic chemical listings)
 SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
 California Prop. 65 Components
 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Chemical Safety Assessment
 For this product a chemical safety assessment was not carried out

16. Other information

Reference

[1] IPCS: The International Chemical Safety Cards (ICSC)	website: http://www.ilo.org/dyn/icsc/showcard.home
EU REACH Registered Substance Database EU	website: http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
OECD: The Global Portal to Information on Chemical Substances,	http://www.echemportal.org/echemportal/index?page ID=0&request locale=en
CAMEO Chemicals,	http://www.echemportal.org/echemportal/index?page ID=0&request locale=en
[5] NLM: ChemIDplus,	website: http://cameochemicals.noaa.gov/search/simple
[6] EPA: Integrated Risk Information System,	website: http://cfpub.epa.gov/iris/
[7] U.S. Department of Transportation: ERG.	website: http://www.phmsa.dot.gov/hazmat/library/erg
[8] Germany	website: http://gestis-gn.itrust.de/



GESTIS-database on hazard substance	
[9]IARC	website:http://www.iarc.ft/
Abbreviations and acronyms	
PC-STEL	Short term exposure limit
PC-TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
EC50	Effective Concentration 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
ADR	Agreement on Dangerous Goods by Road
IATA	International Air Transport Association
IMO	International Maritime Organization
IMDG	The International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
UN	The United Nations
NTP	National Toxicology Program
ACGIH	The American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
Disclaimer	
<p>-This safety data sheet was prepared in accordance with UN GHS Rev.8.</p> <p>-The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.</p>	
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*****End Of Report*****