



Material Safety Data Sheet
acc. to ISO/DIS 11014

1 Identification of substance:

Product details:

Trade name: TIG-Electrode /W- electrode (EWTh -1, EWTh-2)

Manufacturer/Supplier:

Shandong Weldstone Tungsten Industry Co., Ltd.
188 Zhoulong Road, Zhoucun District, Zibo City Shandong Province
255300 PR China
Information department: Quality-Safety-Environment Management

2 Composition/Data on components:

Chemical characterization

Description: Alloy consisting of

WT 10 W 98.3% + .8-1.2 % ThO₂
WT 20 W 97.3% +1.7-2.2 % ThO₂

Dangerous components: Void

3 Hazards identification

Hazard description: not applicable

Information pertaining to particular dangers for man and environment:

Warning: this product contains or produces a chemical known to the state of California to cause cancer or birth defects (or other reproductive harm). California health & safety code section 25249.5 et seq.)

Classification system: The classification was made according to the latest editions of the EU-lists.

NFPA ratings (scale 0-4)

Health = 0
Fire = 0
Reactivity = 0

4 First aid measures

General information: No special measures required.

After inhalation: Supply fresh air, consult doctor in case of complaints

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse affected eye for several minutes under running water

After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with spray or alcohol resistant foam.

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6	Accidental release measures
	Person-related safety precautions: Avoid formation of dust. Use respiratory protective device against the effects of fumes / dust / aerosol.
	Measures for environmental protection: Do not allow to penetrate the ground/ soil.
	Measures for cleaning/collecting: Pick up mechanically. Send for recovery or disposal in suitable receptacles
	Additional information: See section 7 for information on safe handling. No dangerous substances are released.
7	Handling and storage:
	Handling
	Information for safe handling: Ensure that suitable extractors are available on processing machines.
	Information about protection against explosions and fires: Dust can combine with air to form an explosive mixture.
	Storage
	Requirements to be met by storerooms and receptacles: No special requirements.
	Information about storage in one common storage facility: Store away from foodstuffs.
	Further information about storage conditions: None.
	Storage class
	Class according to regulation on flammable liquids: Void
8	Exposure controls and personal protection
	Additional information about design of technical systems: No further data see item 7.
	Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
	Additional information: The lists that were valid during the creation were used as basis.
	Personal protective equipment
	General protective and hygienic measures: Do not eat, drink, smoke or sniff while working.
	Breathing equipment: Use suitable respiratory protective device only when aerosol or mist is formed.
	Protection of hands: Not required.
	Eye Protection: Not required.
	Body Protection: Protective work clothing.
9	Physical and chemical properties
	Form: Solid material
	Color: Gray
	Odor: Odorless
	Change in condition
	Melting point / Melting range: < 3400°C
	Flash point: not applicable
	Auto igniting: product is not self-igniting
	Danger of explosion: product does not present an explosion hazard

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Density:	
WT 10	at 20°C < 19.12 – 19.04 g/cm ³
WT 20	at 20°C < 18.95 – 18.86 g/cm ³
Solubility in / Miscibility with:	
Water:	insoluble
Solids content:	100.0%
10S <u>Stability and reactivity:</u>	
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.	
Dangerous reactions: Reacts with acids, alkalis and oxidizing agents. Risk of dust explosion.	
Dangerous products of decomposition: No dangerous decomposition products known.	
11T <u>Toxicological information</u>	
Acute toxicity:	
Primary irritant effect:	
on the skin: No irritant effect.	
on the eye: No irritating effect.	
Sensitization: No sensitizing effects known.	
Additional toxicological information: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to the specifications, the product does not have any harmful effects according to our experience and the information provided to us.	
12E <u>Ecological information</u>	
General notes: Water hazard class 0 (EU-Regulation)	
13 <u>Disposal considerations</u>	
Product:	
Recommendation: Must be specially treated adhering to official regulations. Smaller quantities can be disposed of with household waste.	
Uncleaned packaging:	
Recommendation: Disposal must be made according to official regulations.	
14 <u>Transport information</u>	
Maritime transport IMDG:	
Marine pollutant: No	
15 <u>Regulations</u>	
Markings according to EU guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).	
National regulations	
Classification according to VbF: Void	
Water hazard class: Water hazard class 0 (Self-assessment): generally not hazardous for water.	

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Other information:

Information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: department "Materials Analysis"