



Material Safety Data Sheet
acc. to ISO/DIS 11014

<p>1 Identification of substance: Product details: Trade name: <u>Tungsten welding electrode (EWP)</u> 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</p>
<p>2 Composition/Data on components: Chemical characterization: 99.5% pure tungsten .5% other oxides or elements CAS No. Description: 7440-33-7 tungsten EINECS Number: 2311439</p>
<p>3 Hazards identification Hazard description: not applicable Information pertaining to particular dangers for man and environment: Not applicable Classification system: The classification was made according to the latest editions of the EU-lists.</p> <p>NFPA ratings (scale 0-4) Health = 0 Fire = 0 Reactivity = 0</p>
<p>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.</p>
<p>5 Fire fighting measures Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with spray or alcohol resistant foam.</p> <p>Protective equipment: No special measures required.</p>
<p>6 Accidental release measures Person-related safety precautions: Avoid formation of dust. Use respiratory protective device against the effects of fumes / dust / aerosol.</p> <p>Measures for environmental protection: No special measures required. Measures for cleaning/collecting: Pick up mechanically. Additional information: No dangerous substances are released.</p>

Material Safety Data Sheet
acc. to ISO/DIS 11014

Trade name: <u>Tungsten welding electrode (EWP)</u>																																					
7	<u>Handling and storage:</u> 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: Not required. Further information about storage conditions: None. Storage class Class according to regulation on flammable liquids: Void																																				
8	<u>Exposure controls and personal protection</u> Additional information about design of technical systems: No further data; see item 7. <u>Components with limit values that require monitoring at the workplace:</u> 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: The usual precautionary measures for handling chemicals should be followed.. Breathing equipment: Not required. Protection of hands: Not required. Eye Protection: Not required.																																				
9	<u>Physical and chemical properties</u> Form: Solid material Color: Gray Odor: Odorless <table><thead><tr><th>Change in condition</th><th><u>Value / Range</u></th><th><u>Unit</u></th><th><u>Method</u></th></tr></thead><tbody><tr><td>Melting point / Melting range:</td><td>3410</td><td>°C</td><td></td></tr><tr><td>Boiling point / Boiling range:</td><td>5900</td><td>°C</td><td></td></tr><tr><td>Flash point:</td><td colspan="3">not applicable</td></tr><tr><td>Flammability:</td><td colspan="3">product is not flammable</td></tr><tr><td>Auto igniting:</td><td colspan="3">product is not self-igniting</td></tr><tr><td>Danger of explosion:</td><td colspan="3">product does not present an explosion hazard</td></tr><tr><td>Density:</td><td>at 20°C</td><td>19.3</td><td>g/cm³</td></tr><tr><td>Solubility in / Miscibility with Water:</td><td colspan="3">insoluble</td></tr></tbody></table>	Change in condition	<u>Value / Range</u>	<u>Unit</u>	<u>Method</u>	Melting point / Melting range:	3410	°C		Boiling point / Boiling range:	5900	°C		Flash point:	not applicable			Flammability:	product is not flammable			Auto igniting:	product is not self-igniting			Danger of explosion:	product does not present an explosion hazard			Density:	at 20°C	19.3	g/cm ³	Solubility in / Miscibility with Water:	insoluble		
Change in condition	<u>Value / Range</u>	<u>Unit</u>	<u>Method</u>																																		
Melting point / Melting range:	3410	°C																																			
Boiling point / Boiling range:	5900	°C																																			
Flash point:	not applicable																																				
Flammability:	product is not flammable																																				
Auto igniting:	product is not self-igniting																																				
Danger of explosion:	product does not present an explosion hazard																																				
Density:	at 20°C	19.3	g/cm ³																																		
Solubility in / Miscibility with Water:	insoluble																																				

Material Safety Data Sheet
acc. to ISO/DIS 11014

9	Organic solvents: 0.0% Solid contents: 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: Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical 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.

Material Safety Data Sheet
acc. to ISO/DIS 11014

Trade name: Tungsten welding electrode (EWP)

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 legal ly valid contractual relationship.

Department issuing MSDS: department "Materials Analysis"