

## SAFETY DATA SHEET

### WOLFRAMELEKTROD RÖD 72321003

Last changed: 23/08/2012

Replaces date: 05/04/2008

Internal No: 72321003

#### 1 Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Trade name / designation WOLFRAMELEKTROD RÖD 72321003

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

RELEVANT IDENTIFIED USES Welding products

##### 1.3 Details of the supplier of the safety data sheet

###### NATIONAL MANUFACTURER/IMPORTER

Enterprise ALEXANDER BINZEL AB  
Address RINGUGNSGATAN 4  
Postal code 216 16 LIMHAMN  
Country SVERIGE  
Telephone +46 40 699 1750

#### 2 Hazards identification

##### 2.1 Classification of the substance or mixture

DPD Classification:

CLP Classification:

Most important HSE hazard effects:

##### 2.2 Label elements

Signal word: None

EC-Label: No

###### COMPOSITION

Wolfram (90 - 100 %), Toriumoxid (1 - 3 %)

###### SUPPLEMENTAL HAZARD INFORMATION (EU)

Not classified.

##### 2.3 Other hazards

###### OTHER HAZARDS

When welding, smoke and gases may be formed that are harmful to health. Inhalation of high contents may cause headache, nausea and dizziness. May have a drying effect on the mucous membranes of the respiratory organs. Risk of lung damage at high concentrations. Radiation from the arc may cause serious damage to the eyes. Warm/hot product may cause burns.

#### 3 Composition/information on ingredients

##### 3.2 Mixtures

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Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
Wolfram		231-143-9	7440-33-7	90 - 100 %		
Toriumoxid		215-225-1	1314-20-1	1 - 3 %		

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

#### 4 First aid measures

##### 4.1 Description of first aid measures

###### INHALATION

Move the exposed person to fresh air at once.

###### INGESTION

Rinse the mouth with water. Contact physician if larger quantity has been consumed. Get medical attention if any discomfort continues.

###### SKIN CONTACT

Wash skin with soap and water. In the event of burn injury: Cool immediately with large quantities of water. Contact physician.

###### EYE CONTACT

Immediately rinse with water for several minutes. Get medical attention if any discomfort continues.

###### GENERAL

Get medical attention if any discomfort continues. Bring the safety data sheet. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Keep the injured person warm and relaxed. In the event of electric shock: Switch off the power source. If necessary, start resuscitation and call a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### 5 Fire-fighting measures

##### 5.1 Extinguishing media

###### SUITABLE EXTINGUISHING MEDIA:

Extinguishing agent: cement or dry sand. Salt

###### UNSUITABLE EXTINGUISHING MEDIA

Do not use water.

##### 5.2 Special hazards arising from the substance or mixture

###### SPECIAL HAZARDS

Vapours that are harmful to health are formed on heating. Note the risk of dust explosion. May ignite other combustible materials.

##### 5.3 Advice for fire-fighters

###### ADVICE FOR FIREFIGHTERS

Vapours that are harmful to health are formed on heating. Use a fresh-air mask. Wear necessary protective equipment.

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#### OTHER INFORMATION

Dust entails a moderate fire risk in contact with sparks or an open fire. Eliminate all sources of ignition. Extinguishing agent: powder.

### 6 Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### PERSONAL PRECAUTIONS

Use personal protective equipment.

#### 6.2 Environmental precautions

##### ENVIRONMENTAL PRECAUTIONS

Prevent the spillage from reaching watercourses or the sewage system and contaminating the soil and vegetation. Inform the emergency service in the event of major spillage.

#### 6.3 Methods and material for containment and cleaning up

##### METHODS AND MATERIAL

Smaller spill: Flush with plenty of water to clean spillage area. Major spillage should be banked with sand, earth or other inert absorption material and collected. Can be dumped as landfill or incinerated in accordance with local regulations.

#### 6.4 Reference to other sections

### 7 Handling and Storage

#### 7.1 Precautions for safe handling

##### PRECAUTION FOR SAFE HANDLING

Use only in well-ventilated areas. If necessary, boosted ventilation, e.g. local extraction. Avoid dust formation.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

Keep in a cool place. Store dry. Keep away from acids. Strong alkalis.

#### 7.3 Specific end uses

### 8 Exposure controls / Personal protection

#### 8.1 Control parameters

##### OEL value

Ingredient name	CAS no.	Range	ppm	mg/m <sup>3</sup>	Year	Notification
Wolfram	7440-33-7	8 h		5		
R=Toxic for reproduction, H=Skin absorption, K=Carcinogenic, A=Sensitising, T=Upper limit, M=Mutagenic						

#### 8.2 Exposure controls

##### APPROPRIATE ENGINEERING CONTROLS

Effective ventilation is a prerequisite. If necessary, boosted ventilation, e.g. local extraction. Avoid direct contact. Avoid handling which leads to dust formation.

##### EYE PROTECTION

Use approved safety goggles or face shield.

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#### SKIN PROTECTION

Use welding gloves, helmet with visor and filter glass or face mask with filter glass.

#### HAND PROTECTION

Wear suitable gloves. Wash skin with soap and water. Use appropriate hand lotion to prevent defatting and cracking of skin.

#### RESPIRATORY PROTECTION

In case of insufficient ventilation, wear suitable respiratory equipment.

### 9 Physical and chemical Properties

#### 9.1 Information on basic physical and chemical properties

**PHYSICAL STATE** Rods.

**COLOUR** Grey.

**ODOUR** Odourless.

**WATER SOLUBILITY** Insoluble in water.

Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	~ 3400 °C		
Freezing point	No data		
Initial boiling point and boiling range	~ 5900 °C		
Flash point	No data		
Evaporation rate	No data		
Flammability (solid, gas)	No data		
Flammability limits	No data		
Explosion limits	No data		
Vapour pressure	No data		
Vapour density	No data		
Relative density	No data		
Partition coefficient	No data		
Auto-ignition temperature	No data		
Decomposition temperature	No data		
Viscosity	No data		

#### 9.2 Other safety information

Parameter	Value/unit	Method/reference	Observation
Density	18,86 - 18,95 g/cm <sup>3</sup>	20°C	

Note no.	Comments

### 10 Stability and Reactivity

#### 10.1 Reactivity

#### 10.2 Chemical stability

##### CHEMICAL STABILITY

Stable under recommended storage and handling conditions.

#### 10.3 Possibility of hazardous reactions

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#### 10.4 Conditions to avoid

##### CONDITIONS TO AVOID

Avoid dust formation.

#### 10.5 Incompatible materials

#### 10.6 Hazardous decomposition products:

### 11 Toxicological information

#### 11.1 Toxicological effects

##### ACUTE TOXICITY - DERMAL

Dust may cause irritation.

##### ACUTE TOXICITY - INHALATION

Dust may irritate the respiratory tract. When welding, smoke and gases may be formed that are harmful to health.

##### SERIOUS EYE DAMAGE/IRRITATION

Dust may cause irritation.

##### CARCINOGENICITY

May cause cancer after repeated exposure.

##### OTHER TOXICOLOGICAL INFORMATION

Avoid dust formation. Irritating to eyes, respiratory system and skin.

### 12 Ecological information

#### 12.1 Toxicity

#### 12.2 Persistence and degradability

##### DEGRADABILITY

Not degradable.

#### 12.3 Bioaccumulative potential

#### 12.4 Mobility in soil

##### MOBILITY

Insoluble in water.

#### 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects

##### OTHER INFORMATION

Prevent discharges into the sewage system, watercourses or lakes.

### 13 Disposal considerations

#### 13.1 Waste treatment methods

##### GENERAL REGULATIONS

Treat as dangerous waste. Follow local regulations.

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#### 14 Transport information

Classified as Dangerous Goods: **No**

##### Land transport (ADR/RID)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Hazard label(s)	Not applicable.		
Hazard ID:	Not applicable.	Tunnel restriction code	Not applicable.

##### Inland water ways transport (ADN)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Environmentally hazardous in tank-vessels	Not applicable.		

##### Sea transport (IMDG)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Sub Risk:	Not applicable.		
IMDG Code segregation group	Not applicable.		
Marine pollutant	Not applicable.		
EMS:	Not applicable.		

##### Air transport (ICAO-TI / IATA-DGR)

14.1 UN-No.	Not applicable.	14.4 Packing group	Not applicable.
14.2 Proper Shipping Name	Not applicable.	14.5 Environmental hazards	Not applicable.
14.3 Class(es)	Not applicable.		
Hazard label(s)	Not applicable.		

#### 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical Safety Assessment

#### 16 Other information