

SAFETY DATA SHEET

WOLFRAMELEKTROD WT20 203340609

Last changed: 14/06/2012

Internal No: 203340609

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

1.1 Product identifier

Trade name / designation WOLFRAMELEKTROD WT20 203340609

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 Luna Verktyg & Maskin AB
Postal code 441 80 Alingsås
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CONTACT PERSONS

Name	E-mail	Telephone	Country
Mikael Olsson			

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 %)

2.3 Other hazards

3 Composition/information on ingredients

3.2 Mixtures

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.

SAFETY DATA SHEET

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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.

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.

SAFETY DATA SHEET

WOLFRAMELEKTROD WT20 203340609

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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/m3	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.

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.

SAFETY DATA SHEET

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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 temprature	No data		
Decomposition temprature	No data		
Viscosity	No data		

9.2 Other safety information

Parameter	Value/unit	Method/reference	Observation
Density	18,86 - 18,95 g/cm ³	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

10.4 Conditions to avoid

CONDITIONS TO AVOID

Avoid dust formation.

10.5 Incompatible materials

10.6 Hazardous decomposition products:

11 Toxicological information

SAFETY DATA SHEET

WOLFRAMELEKTROD WT20 203340609

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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.

14 Transport information

Classified as Dangerous Goods: No

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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