

## SAFETY DATA SHEET

WOLFRAMELEKTROD WC20 203342407

Last changed: 14/06/2012

Internal No: 203342407

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

#### 1.1 Product identifier

Trade name / designation    WOLFRAMELEKTROD WC20 203342407

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

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

##### NATIONAL MANUFACTURER/IMPORTER

Enterprise    Luna Verktyg & Maskin AB  
Postal code    441 80 Alingsås  
Country    Sverige  
E-mail    mikael.olsson@luna.se  
Internet    www.luna.se  
Telephone    +46 322 60 60 00  
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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

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

#### 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
Ceriumoxid		215-150-4	1306-38-3	1 - 3 %		
Wolfram			7440-33-7	90 - 100 %	R67	STOT SE 3 H336

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

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### 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.

#### 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

Rinse thoroughly with water until the irritation subsides. Get medical attention if any discomfort continues.

#### GENERAL

Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention if any discomfort continues. Show this safety data sheet, if possible. Keep the injured person warm and relaxed.

### 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.

#### EXTINGUISHING METHODS

Use a respirator and other protective equipment.

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

#### SPECIAL HAZARDS

Note the risk of dust explosion. High concentrations of dust may form explosive mixture with air.

### 5.3 Advice for fire-fighters

#### OTHER INFORMATION

Vapours that are harmful to health are formed on heating.

### 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.

## SAFETY DATA SHEET

WOLFRAMELEKTROD WC20 203342407

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### 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.

### 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.

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

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

Keep in a cool place. Store dry.

### 7.3 Specific end uses

## 8 Exposure controls / Personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### APPROPRIATE ENGINEERING CONTROLS

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

#### EYE PROTECTION

Use eye protection.

#### SKIN PROTECTION

Use suitable protective clothing, as necessary. Wash skin with soap and water. Use appropriate hand lotion to prevent defatting and cracking of skin.

#### HAND PROTECTION

Use protective gloves. Wash skin with soap and water.

#### 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.

**SOLUBILITY** Insoluble in water.

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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	19 - 19,1 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

### 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

Avoid dust formation. May be irritating.

#### ACUTE TOXICITY - INHALATION

Avoid dust formation. May irritate the respiratory organs. When welding, smoke and gases may be formed that are harmful to health.

#### SERIOUS EYE DAMAGE/IRRITATION

Avoid dust formation. May be irritating to eyes.

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**WOLFRAMELEKTROD WC20 203342407**

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### 12 Ecological information

#### 12.1 Toxicity

#### 12.2 Persistence and degradability

#### 12.3 Bioaccumulative potential

#### 12.4 Mobility in soil

#### 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects

#### OTHER INFORMATION

Insoluble in water. Not degradable. Must not be discharged into the sewage system.

### 13 Disposal considerations

#### 13.1 Waste treatment methods

#### GENERAL REGULATIONS

Can be dumped as landfill or incinerated in accordance with local regulations.

#### CATEGORY OF WASTE

EWC-kod 20 01 4

### 14 Transport information

Classified as Dangerous Goods: **No**

#### Land transport (ADR/RID)

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

#### Inland water ways transport (ADN)

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

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### Sea transport (IMDG)

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

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

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

#### LIST OF RELEVANT R-PHRASES

R67      Vapours may cause drowsiness and dizziness.

#### LIST OF RELEVANT H-STATEMENTS

H336      May cause drowsiness or dizziness.