

## SAFETY DATA SHEET

WOLFRAMELEKTROD WL15 203341706

Last changed: 14/06/2012

Internal No: 203341706

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

#### 1.1 Product identifier

Trade name / designation    WOLFRAMELEKTROD WL15 203341706

#### 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  
 Fax    +46 60 64 43

##### 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 %), Dilantanoxid (1 - 2 %)

#### 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 %		
Dilantanoxid		215-200-5	1312-81-8	1 - 2 %	Xi,R36/37/38	Skin Irrit. 2 H315 Eye Irrit. 2 H319 Resp. Sens. 1 H334

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

WOLFRAMELEKTROD WL15 203341706

Last changed: 14/06/2012

Internal No: 203341706

### 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.

##### 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

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.

##### UNSUITABLE EXTINGUISHING MEDIA

Water

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

##### SPECIAL HAZARDS

Vapours that are harmful to health are formed on heating. Dust entails a moderate fire risk in contact with sparks or an open fire. Note the risk of dust explosion.

#### 5.3 Advice for fire-fighters

##### ADVICE FOR FIREFIGHTERS

Use protective clothing that is resistant to chemicals. Use a fresh-air mask.

### 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 WL15 203341706

Last changed: 14/06/2012

Internal No: 203341706

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

#### METHODS AND MATERIAL

Small quantities may be flushed to drains with plenty of water. 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

Provide good ventilation. If necessary, boosted ventilation, e.g. local extraction. Avoid handling which leads to 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.

#### 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

Provide good ventilation. Mechanical ventilation or local exhaust ventilation may be required. Avoid direct contact. Avoid handling which leads to dust formation.

##### EYE PROTECTION

Use approved safety goggles or face shield.

##### SKIN PROTECTION

Use suitable protective clothing, as necessary.

##### HAND PROTECTION

Use protective gloves. Wash with soap and water and apply skin cream, if necessary.

##### 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. Metal-coloured.

**ODOUR**                 Odourless.

## SAFETY DATA SHEET

**WOLFRAMELEKTROD WL15 203341706**

Last changed: 14/06/2012

Internal No: 203341706

**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	18,6 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 handling which leads to 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

Dust may irritate the respiratory tract. Avoid breathing fire vapours. May be harmful to health.

## SAFETY DATA SHEET

**WOLFRAMELEKTROD WL15 203341706**

Last changed: 14/06/2012

Internal No: 203341706

### **SERIOUS EYE DAMAGE/IRRITATION**

Avoid dust formation. May be irritating.

### **OTHER TOXICOLOGICAL INFORMATION**

Avoid dust formation. Irritating to eyes and respiratory system. Irritating to 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**

## **13 Disposal considerations**

### **13.1 Waste treatment methods**

#### **GENERAL REGULATIONS**

Non-dangerous waste. Follow 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.

## SAFETY DATA SHEET

**WOLFRAMELEKTROD WL15 203341706**

Last changed: 14/06/2012

Internal No: 203341706

### 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>Enviromentally hazardous in tank-vessels</b>	Not applicable.		

### 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

R36/37/38 Irritating to eyes, respiratory system and skin.

### LIST OF RELEVANT H-STATEMENTS

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled.