

## SAFETY DATA SHEET

ELEKTROD RT 70 206040404

Last changed: 18/06/2012

Internal No: 206040404

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

#### 1.1 Product identifier

Trade name / designation ELEKTROD RT 70 206040404

#### 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

#### 2.3 Other hazards

### 3 Composition/information on ingredients

#### 3.2 Mixtures

### 4 First aid measures

#### 4.1 Description of first aid measures

##### INHALATION

During welding fume can be inhaled: bring patient in fresh air, breath in fresh air deeply. Contact physician if necessary

##### INGESTION

Get medical advice immediately.

##### SKIN CONTACT

Wash skin thoroughly with soap and water.

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### EYE CONTACT

Flush immediately with lukewarm, running water for at least 15 minutes, also under the eyelids.  
Get medical attention if any discomfort continues.

### 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

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

#### 5.3 Advice for fire-fighters

### 6 Accidental release measures

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

#### 6.2 Environmental precautions

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

#### 6.4 Reference to other sections

### 7 Handling and Storage

#### 7.1 Precautions for safe handling

PRECAUTION FOR SAFE HANDLING

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

#### 7.3 Specific end uses

### 8 Exposure controls / Personal protection

#### 8.1 Control parameters

#### 8.2 Exposure controls

APPROPRIATE ENGINEERING CONTROLS

When using do not eat, drink or smoke.

### SKIN PROTECTION

### RESPIRATORY PROTECTION

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### OTHER INFORMATION

During welding fumes will be formed. The fume content is depending on the electrode type and the base material. Primarily iron oxid, secondarily complex oxides of manganese may be formed. Also ozone and nitrogen dioxide can be formed by arc radiation.

Limit values:

Manganese Oxid CAS-No. 1317-35-7, 0,5 mg/m<sup>3</sup>

Small dust, 6,0 mg/m<sup>3</sup>

Ozone CAS-No. 10028-15-6, 0,2 mg/m<sup>3</sup>

Nitrogen dioxide CAS-No. 10102-44-0, 9 mg/m<sup>3</sup>

## 9 Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

**PHYSICAL STATE** Electrode

Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	No data		
Freezing point	No data		
Initial boiling point and boiling range	No data		
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

Note no.	Comments

## 10 Stability and Reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

#### CHEMICAL STABILITY

Stable up to 1200 °C.

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

#### INCOMPATIBLE MATERIALS

Avoid contact with strong acids and bases.

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**10.6 Hazardous decomposition products:**

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**11 Toxicological information**

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**11.1 Toxicological effects**

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**12 Ecological information**

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**12.1 Toxicity**

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**12.2 Persistence and degradability**

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**12.3 Bioaccumulative potential**

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**12.4 Mobility in soil**

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**12.5 Results of PBT and vPvB assessment**

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**12.6 Other adverse effects**

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**13 Disposal considerations**

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**13.1 Waste treatment methods**

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**GENERAL REGULATIONS**

Solid waste must be handled according to local regulations.

**14 Transport information**

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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**

### OTHER INFORMATION

Warning do not inhale welding fumes. Medium acute toxicity. Risk of injuries with long term or frequent inhalation. Ensure that ventilation is good. See the Safety Data Sheet for the type of electrode in question. .

## 16 Other information

### Information sources

- Unfallverhütungsvorschrift (VEG 15): Schweißen, Schneiden und verwandte Verfahren - DVS-Merkblatt 1201: Absaugung an Schweißarbeitsplätzen - DVS-Faltblätter zum Arbeitsschutz beim Schweißen - DVS-Fachbuch: Unterweisung von Schweiß im Arbeitsschutz - Kraume, Zober: Arbeitssicherheit und Gesundheitsschutz in der Schweißtechnik