

ELEKTROD R 48S 205960404

Last changed: 18/06/2012 Internal No: 205960404

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

1.1 Product identifier

Trade name / designation ELEKTROD R 48S 205960404

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

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CONTACT PERSONS

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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

Mn (< 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
Mn			7439-96-5	< 2 %		

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



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Last changed: 18/06/2012 Internal No: 205960404 INHALATION During welding fume can be inhaled: bring patient in fresh air, breath in fresh air deeply. Contact physician if necessary INGESTION Not applicable. SKIN CONTACT Not applicable. **EYE CONTACT** Not applicable. 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: Fire can be extinguished with carbon dioxide, powder, foam or water spray. 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 PERSONAL PRECAUTIONS No special precautions required. 6.2 Environmental precautions **ENVIRONMENTAL PRECAUTIONS** No special precautions required. 6.3 Methods and material for containment and cleaning up **METHODS AND MATERIAL** Dumped according to local and national regulations.

6.4 Reference to other sections

7 Handling and Storage

7.1 Precautions for safe handling

PRECAUTION FOR SAFE HANDLING

No special precautions required.

7.2 Conditions for safe storage, including any incompatibilities

CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

No specific storage precautions noted.



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7.3 Specific end uses

8 Exposure controls / Personal protection

8.1 Control parameters

8.2 Exposure controls

APPROPRIATE ENGINEERING CONTROLS

In case od dust or smoke: keep foodstuffs sealed

Avoid direct contact. Protective clothing must be stored separately from other clothing.

Wash your hands thoroughly after handling and before eating or smoking.

EYE PROTECTION

Use eye protection.

SKIN PROTECTION

Use well fitting working clothes
Use a welding helmet during welding

HAND PROTECTION

Wear suitable gloves.

RESPIRATORY PROTECTION

During welding fumes will be formed The fumecontant 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

Effective ventilation is presupposed or suitable respirator.

OTHER INFORMATION

Possible reaction products i welding fume Manganese oxide, ozon, nitrogen dioxid

9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

PHYSICAL STATE Electrode

Parameter	Value/unit	Method/reference	Observation
pH consentrate	No data		
pH in solution	No data		
Melting point	1000 - 1500 °C		
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		
Explotion 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		



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9.2 Other safety information	
Note no. Comments	
10 Stability and Reactivity	
10.1 Reactivity	
10.2 Chemical stability	
<u> </u>	
10.3 Possibility of hazardous reactions	
10.4 Conditions to avoid	
CONDITIONS TO AVOID	
Avoid contact with acids and alkalies.	
10.5 Incompatible materials	
10.6 Hazardous decomposition products: HAZARDOUS DECOMPOSITION PRODUCTS	
Not known	
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11 Toxicological information	
11.1 Toxicological effects	
12 Ecological information	
12.1 Toxicity	
ECOTOXICITY	
Not known	
12.2 Persistence and degradability	
· · ·	
12.3 Bioaccumulative potential	
12.4 Mobility in soil	
10.5.0	
12.5 Results of PBT and vPvB assessment	
12.6 Other adverse effects	
13 Disposal considerations	
13.1 Waste treatment methods	
GENERAL REGULATIONS	
Dumped according to local and national regulations.	
14 Transport information	
Classified as Dangerous Goods: No	_



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

Inland water ways transport (ADN) 14.1 UN-No. 14.4 Packing Not applicable. Not applicable group 14.2 Proper Not applicable. 14.5 Not applicable. Shipping **Environmental** Name hazards 14.3 Class(es) Not applicable. Enviromentally Not applicable. hazardous in tank-vessels

code

Sea transport (IMDG) 14.1 UN-No. 14.4 Packing Not applicable. Not applicable. group 14.2 Proper Not applicable. 14.5 Not applicable. Shipping **Environmental** Name hazards 14 3 Not applicable. Class(es) Sub Risk: Not applicable. IMDG Code Not applicable. segregation group Marine Not applicable. pollutant EMS: Not applicable

Air transport (ICAO-TI / IATA-DGR) 14.1 UN-No. Not applicable. 14.4 Packing Not applicable. group 14.5 14.2 Proper Not applicable. Not applicable. Shipping Environmental Name hazards 14.3 Not applicable. Class(es) Hazard Not applicable label(s)

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