

ELEKTROD R 47D 205950306

Telephone

Last changed: 18/06/2012

Internal No: 205950306

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

1.1 Product identifier

Trade name / designation ELEKTROD R 47D 205950306

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

E-mail

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 |
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| Fax | +46 60 64 43 |

CONTACT PERSONS

Name 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

Mn (0,9 %), Si (0,7 %)

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 | 0,9 % | | |
| Si | | | 7440-21-3 | 0,7 % | , | Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 |

Full text of R-, H- and EUH-phrases: see section 16.

The EUH hazard statements mentioned in CLP-classification are only label elements.

Country



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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

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.



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CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

No specific storage precautions noted.

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



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| 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 | | |

9.2 Other safety information

Note no.

Comments

10 Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability

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

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



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12.4 Mobility in soil

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

| 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. | |
| I pland water w | ays 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. | | | |
| Enviromentally hazardous in tank-vessels | Not applicable. | | | |
| | | | |] |
| Sea transport (14.1 UN-No. | | 14.4 Deaking | Net englischie | |
| 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. | nazal do | | |
| Sub Risk: IMDG Code segregation group | Not applicable. Not applicable. | | | |
| Marine pollutant | Not applicable. | | | |
| EMS: | Not applicable. | | | |

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SAFETY DATA SHEET

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| 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 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

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.

H335 May cause respiratory irritation.