

#### ELEKTROD RI 310 207840307

Last changed: 20/06/2012 Internal No: 207840307

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

#### 1.1 Product identifier

## 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**

Name	E-mail	Telephone	Country	
M'I a a LOLa a a a				

Mikael Olsson

## 2 Hazards identification

## 2.1 Classification of the substance or mixture

**DPD Classification:** Carc. Cat. 3; R40, R43

**CLP Classification:** Skin Sens. 1BH317, Carc. 2H351

Most important HSE hazard effects: May cause an allergic skin reaction. Suspected of causing cancer.

## 2.2 Label elements



Signal word: None

EC-Label: No

#### COMPOSITION

Nickel. (< 25 %), Mn (< 10 %), Cr (< 30 %), Mo (< 5 %), Koppar (< 2 %), Wolfram (< 1 %)

## H Statements

H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.

## 2.3 Other hazards

## 3 Composition/information on ingredients

## 3.2 Mixtures



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Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
Nickel.			7440-02-0	< 25 %	Xn,Xi,R40 - R43	Skin Sens. 1 H317 Carc. 2 H351
Mn			7439-96-5	< 10 %		
Cr			7440-47-3	< 30 %		
Мо			7439-98-7	< 5 %		
Koppar			7440-50-8	< 2 %	Xn,R48/20	STOT RE 2 H373
Wolfram			7440-33-7	< 1 %	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

## 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:

Extinguishing agent: carbon dioxide, powder, foam, a wide water jet or water mist.

## 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.



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## 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.

#### 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 sealedAvoid direct contact.

#### **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

If ventilation is insufficient, suitable respiratory protection must be applied. Protective clothing must be stored separately from other clothing. Wash your hands thoroughly after handling and before eating or smoking.

## OTHER INFORMATION

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, nickel, chromium and molybdenum may be formed Also ozone and nitrogen dioxide can be formed by arc radiation

## 9 Physical and chemical Properties

## 9.1 Information on basic physical and chemical properties

PHYSICAL STATE Electrode 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.			

14.2 Proper Shipping Name

Not applicable.

14.4 Packing group 14.5

Not applicable. Not applicable.

**Environmental** 

hazards

14.3 Not applicable.

Class(es)

Hazard label(s) Not applicable.

Hazard ID: Not applicable.

Tunnel restriction code

Not applicable.

Inland water way	transport (ADN)
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14.1 UN-No. Not applicable.

14.4 Packing group

Not applicable

14.5

Not applicable. Environmental

hazards

14.3 Class(es) Enviromentally hazardous in

14.2 Proper

Shipping

Name

Not applicable.

Not applicable.

tank-vessels

14.1 UN-No.

Not applicable.

Not applicable.

Sea transport (IMDG)

14.2 Proper Not applicable. Shipping

14.4 Packing group 14.5 Environmental Not applicable. Not applicable.

hazards

Name 14.3

Class(es)

Not applicable.

Sub Risk: Not applicable. IMDG Code Not applicable.

segregation group

Marine pollutant Not applicable

Not applicable EMS:



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hazards

Not applicable.

Air transport (ICAO-TI / IATA-DGR)

**14.1 UN-No.** Not applicable. **14.4 Packing** Not applicable.

group
14.2 Proper Not applicable. 14.5

Shipping Name Environmental

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

LIST OF RELEVANT R-PHRASES		
R40	Limited evidence of a carcinogenic effect.	
R43	May cause sensitisation by skin contact.	
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.	
R67	Vapours may cause drowsiness and dizziness.	

LIST OF RELEVANT H-STATEMENTS		
H317	May cause an allergic skin reaction.	
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
H373	May cause damage to organs through prolonged or repeated exposure.	