

## SAFETY DATA SHEET

**SVETSTRÅD RMI 309LSI 206160103**

Last changed: 20/06/2012

Internal No: 206160103

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

#### 1.1 Product identifier

Trade name / designation SVETSTRÅD RMI 309LSI 206160103

#### 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: 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

Cr (18,5 %), Mn (1,75 %), Si (0,85 %), Mo (2,7 %), Nickel. (> 12 %)

##### 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
Cr			7440-47-3	18,5 %		
Mn			7439-96-5	1,75 %		
Si			7440-21-3	0,85 %	Xi,R36/37/38	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335
Mo			7439-98-7	2,7 %		
Nickel.			7440-02-0	> 12 %	Xn,Xi,R40 - R43	Skin Sens. 1 H317 Carc. 2 H351

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

Little or no skin irritation.

Remove contaminated clothing.Wash the skin immediately with soap and water.

Get medical attention if irritation persists after washing.

###### EYE CONTACT

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

###### 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

Observe normal care.

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

#### CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

Isolate from acids and other materials that the product may react with (see under reactivity.)

### 7.3 Specific end uses

## 8 Exposure controls / Personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### APPROPRIATE ENGINEERING CONTROLS

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

Effective ventilation is presupposed or suitable respirator.

## 9 Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

**PHYSICAL STATE** Electrode

**COLOUR** Metal-coloured.

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Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	1528 °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		
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

Note no.	Comments

## 10 Stability and Reactivity

### 10.1 Reactivity

### 10.2 Chemical stability

#### CHEMICAL STABILITY

Stable up to the melting point.

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

### 10.5 Incompatible materials

#### INCOMPATIBLE MATERIALS

Reacts with strong acids. Risk of hydrogen formation.

### 10.6 Hazardous decomposition products:

## 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.

#### Inland water ways 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 (IMDG)

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.		
Sub Risk:	Not applicable.		
IMDG Code segregation group	Not applicable.		
Marine pollutant	Not applicable.		
EMS:	Not applicable.		

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### 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

#### LIST OF RELEVANT R-PHRASES

R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.

#### LIST OF RELEVANT H-STATEMENTS

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.