

## SAFETY DATA SHEET

**RÖRTRÅD RC 123 206190209**

Last changed: 20/06/2012

Internal No: 206190209

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

#### 1.1 Product identifier

Trade name / designation RÖRTRÅD RC 123 206190209

#### 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

##### COMPOSITION

Fe (> 75 %), Titandioxid (< 4 %), Si (< 2 %), Al (< 5 %), Litiumfluorid (< 2 %), Mg (< 3 %), Manganese (< 2 %)

#### 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
Fe			7439-89-6	> 75 %	Xi,R37	STOT SE 3 H335
Titandioxid		236-675-5	13463-67-7	< 4 %		
Si			7440-21-3	< 2 %	Xi,R36/37/38	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335
Al			7429-90-5	< 5 %		
Litiumfluorid			7789-24-4	< 2 %		
Mg			7439-95-4	< 3 %		
Manganese			7439-96-5	< 2 %	Xn,R48	STOT RE 2 H373

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

###### SKIN CONTACT

###### EYE CONTACT

In case of splashes or symptoms due to high vapour concentrations, flush the eyes immediately with a soft jet of preferably lukewarm water for at least 15 minutes.

##### 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

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### 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**

Effective ventilation is a prerequisite.

#### **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 fumecontent is depending on the electrode type and the base material

Primarily iron oxid, secondarily complex oxides of manganese may be formed

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** Dark grey.

**ODOUR** Odour-free.

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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 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

#### 10.5 Incompatible materials

#### 10.6 Hazardous decomposition products:

##### HAZARDOUS DECOMPOSITION PRODUCTS

Possible reaction products i welding fume

### 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

#### 12.5 Results of PBT and vPvB assessment

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### 12.6 Other adverse effects

#### OTHER INFORMATION

Do not release gas to the atmosphere.

### 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.		
Environmentally 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) 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. Refer particularly to local circumstances and regulations.

### 16 Other information

#### VENDOR NOTES

Read safety data sheet before use. It is the responsibility of the recipient of this safety data sheet to ensure that information given here is read and understood by all who use, handle, dispose of or in any way come in contact with the product.

#### LIST OF RELEVANT R-PHRASES

R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R48	Danger of serious damage to health by prolonged exposure.

#### LIST OF RELEVANT H-STATEMENTS

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.