SAFETY DATA SHEET

MIGTRÅD RM 100 203060108

Last changed: 14/06/2012 Internal No: 203060108

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

1.1 Product identifier

Trade name / designation MIGTRÅD RM 100 203060108

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
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Telephone	+46 322 60 60 00
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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, Xn; R48

CLP Classification: Skin Sens. 1H317, Carc. 2H351, STOT RE 2H373

Most important HSE hazard effects: May cause an allergic skin reaction.Suspected of causing cancer.May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Signal word: None

EC-Label: No

COMPOSITION

Kol (< 0,13 %), Kisel (< 0,9 %), Järn (> 95 %), Krom (< 0,15 %), Nickel. (< 1,4 %), Molybden (< 0,7 %), Manganese (< 2 %)

H Statements	
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

2.3 Other hazards

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3 Composition/information on ingredients

3.2 Mixtures

Ingredient name	Reg.No	EC No.	CAS No.	Conc. (wt%)	DPD-Classification	CLP-classification
Kol			7440-44-0	< 0,13 %		
Kisel			7440-21-3	< 0,9 %		
Järn			7439-89-6	> 95 %		
Krom			7440-47-3	< 0,15 %		
Nickel.			7440-02-0	< 1,4 %	Xn,Xi,R40 - R43	Skin Sens. 1 H317 Carc. 2 H351
Molybden			7439-98-7	< 0,7 %		
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

Move the exposed person to fresh air at once. 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

SUITABLE EXTINGUISHING MEDIA:

All common fire extinguishing agents may be used.

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

METHODS AND MATERIAL

See section 13.

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 special precautions required.

7.3 Specific end uses

8 Exposure controls / Personal protection

8.1 Control parameters

OTHER INFORMATION REGARDING LIMIT VALUES AND MONITORING

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

8.2 Exposure controls

APPROPRIATE ENGINEERING CONTROLS

Use only in well-ventilated areas. Avoid contact with skin. Observe normal hygiene such as washing hands before meals, etc.

EYE PROTECTION

Use breathing masks and eye protection when smoke is present.

SKIN PROTECTION

Wear suitable protective clothing. Use a welding helmet during welding

HAND PROTECTION

Wear suitable gloves.

RESPIRATORY PROTECTION

Use breathing masks and eye protection when smoke is present.

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 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 Solid form.
COLOUR	Reddish.
ODOUR	No odour.

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Parameter	Value/unit	Method/reference	Observation
pH consentrate	No data		
pH in solution	No data		
Melting point	1400 - 1600 °C		
Freezing point	No data		
Initial boiling point and boiling range	2700 - 2900 °C		
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

Strong acids. Strong alkalis.

10.5 Incompatible materials

10.6 Hazardous decomposition products:

11 Toxicological information

11.1 Toxicological effects

12 Ecological information

12.1 Toxicity

12.2 Persistence and degradability

12.3 Bioaccumulative potential

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

Dump or destroy in accordance with official recommendations and applicable legislation.

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.		

Air transport (ICAO-TI / IATA-DGR)			
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

16 Other information

LIST OF RELEVANT R-PHRASES	
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
R48	Danger of serious damage to health by prolonged exposure.

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