

## SAFETY DATA SHEET

**TIGTRÅD RT WSG1 203050109**

Last changed: 16/04/2012

Internal No: 203050109

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

#### 1.1 Product identifier

Trade name / designation TIGTRÅD RT WSG1 203050109

#### 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  
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: Xn; R48

CLP Classification: STOT RE 2H373

Most important HSE hazard effects: May cause damage to organs through prolonged or repeated exposure.

#### 2.2 Label elements

Signal word: None

EC-Label: No

##### COMPOSITION

Järn (~ 97 %), Manganese (0,9 - 1,4 %), Kisel (0,4 - 0,8 %), aluminium powder (pyrophoric) (0,05 - 0,2 %)

##### H Statements

H373 May cause damage to organs through prolonged or repeated exposure.

#### 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
Järn			7439-89-6	~ 97 %		
Manganese			7439-96-5	0,9 - 1,4 %	Xn,R48	STOT RE 2 H373
Kisel			7440-21-3	0,4 - 0,8 %		
aluminium powder (pyrophoric)		231-072-3	7429-90-5	0,05 - 0,2 %	F,R15 - R17	Pyr. Sol. 1 H250 Water-react. 2 H261

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

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### CONDITION FOR SAFE STORAGE, INCLUDING ANY UNCOMPATIBILITIES

No special precautions required.

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### 7.3 Specific end uses

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### 8 Exposure controls / Personal protection

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#### 8.1 Control parameters

#### OTHER INFORMATION REGARDING LIMIT VALUES AND MONITORING

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

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#### 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

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### 9 Physical and chemical Properties

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#### 9.1 Information on basic physical and chemical properties

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**PHYSICAL STATE** Solid. Solid form.

**COLOUR** Copper-coloured.

**ODOUR** No odour.

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Parameter	Value/unit	Method/reference	Observation
pH concentrate	No data		
pH in solution	No data		
Melting point	~ 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		
Explosion limits	No data		
Vapour pressure	No data		
Vapour density	No data		
Relative density	No data		
Partition coefficient	No data		
Auto-ignition temperature	No data		
Decomposition temperature	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 under recommended storage and handling conditions.

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

#### CONDITIONS TO AVOID

Strong acids.

### 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

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### 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.		
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.		

#### 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.		

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### 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

R15	Contact with water liberates extremely flammable gases.
R17	Spontaneously flammable in air.
R48	Danger of serious damage to health by prolonged exposure.

#### LIST OF RELEVANT H-STATEMENTS

H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gas.
H373	May cause damage to organs through prolonged or repeated exposure.