

## SAFETY DATA SHEET

### TIGTRÅD RT AISI5 206110058

Last changed: 20/06/2012

Internal No: 206110058

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

##### 1.1 Product identifier

Trade name / designation TIGTRÅD RT AISI5 206110058

##### 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

Al (95 %), Fe (0,2 %), Si (5 %), Mn (0,01 %), Zn (0,01 %)

##### 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  |
|-----------------|--------|--------|-----------|-------------|--------------------|---|
| Al              |        |        | 7429-90-5 | 95 %        |                    |   |
| Fe              |        |        | 7439-89-6 | 0,2 %       | Xi,R37             | STOT SE 3 H335  |
| Si              |        |        | 7440-21-3 | 5 %         | Xi,R36/37/38       | Skin Irrit. 2 H315<br>Eye Irrit. 2 H319<br>STOT SE 3 H335 |
| Mn              |        |        | 7439-96-5 | 0,01 %      |                    |   |
| Zn              |        |        | 7440-66-6 | 0,01 %      |                    |   |

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:

Can be extinguished with powder or dry sand.

###### UNSUITABLE EXTINGUISHING MEDIA

Do not use water. Do not use water mist.

##### 5.2 Special hazards arising from the substance or mixture

###### SPECIAL HAZARDS

Aluminium Can form dust clouds that may explode on contact with flames, heat and oxidizers.

##### 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.

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### 6.2 Environmental precautions

#### ENVIRONMENTAL PRECAUTIONS

No special precautions required.

### 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

Keep container dry.

### 7.3 Specific end uses

## 8 Exposure controls / Personal protection

### 8.1 Control parameters

### 8.2 Exposure 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

Effective ventilation is presupposed or suitable respirator.

#### OTHER INFORMATION

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

## 9 Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

**PHYSICAL STATE** Electrode

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| Parameter                               | Value/unit   | Method/reference | Observation |
|---|--------------|------------------|-------------|
| pH concentrate                          | No data      |                  |             |
| pH in solution                          | No data      |                  |             |
| Melting point                           | 520 - 660 °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 under normal conditions

### 10.3 Possibility of hazardous reactions

### 10.4 Conditions to avoid

#### CONDITIONS TO AVOID

Avoid contact with acids and alkalies.

### 10.5 Incompatible materials

#### INCOMPATIBLE MATERIALS

Dust from aluminium are considerable reaktive with water, strong oxidizers, acids and alkalis, halogenated compounds and iron oxide

### 10.6 Hazardous decomposition products:

## 11 Toxicological information

### 11.1 Toxicological effects

## 12 Ecological information

### 12.1 Toxicity

#### ECOTOXICITY

Not known

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### 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

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.

#### 16 Other information

##### LIST OF RELEVANT R-PHRASES

|           |  |
|-----------|--|
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R37       | Irritating to respiratory system.                |

##### LIST OF RELEVANT H-STATEMENTS

|      |                                   |
|------|-----------------------------------|
| H315 | Causes skin irritation.           |
| H319 | Causes serious eye irritation.    |
| H335 | May cause respiratory irritation. |