

## SAFETY DATA SHEET

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

## 1.1 Product identifier

- Product Name: WELDING ELECTRODE TINBRO 341
- Product Part Number: 558445 - 606458

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture:
- Welding electrode

## 1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Wilhelmsen Ships Service AS
- Address of Supplier: Willem Barentszstraat 50, 3165AB Rotterdam, The Netherlands
- Telephone: +31 4877 777 Fax: +31 4877 888
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- Head office: Wilhelmsen Ships Service AS
- Strandveien 20, N1324 Lysaker
- Norway, Tel: (47) 6349 440 35
- 
- Other suppliers SEE SECTION 16!!!
- For quotations contact your local Customer Services
- 
- Responsible Person: Product HSE Manager,
- Email: Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com
- Telephone: Tel.: +31 10 4877775

## 1.4 Emergency telephone number

- \*\*\*\*ONLY TO BE USED IN CASE OF AN INCIDENT\*\*\*\*
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- International 24hrs Emergency NCEC: +44 1865 407333
- American Chemistry Council 24hrs +1 703 527 3887
- American 24hrs Emergency CHEMTREC (800) 424 9300
- Greece: Poisoning emergency center, +30 210 7793777
- Norway: Poison information centre, +47 22591300
- Sweden: Poison information centre, +46 08 33 12 31
- China NRCC 24hrs emergency telephone number: +86-0532-8388 9090
- Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

**SECTION 2 Hazards identification**

## 2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Symbols: Xn
- Danger of serious damage to health by prolonged exposure (R48)
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- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Symbols: GHS07

## SECTION 2 Hazards identification (....)

- Signal Word: Danger
- Harmful if inhaled (H332).

### 2.2 Label elements



- Risk Phrases  
Danger of serious damage to health by prolonged exposure (R48)
- Safety Phrases  
Do not breathe fumes (S23)  
Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- Hazard phrases
- Precautionary Phrases

### 2.3 Other hazards

- Odour: Odourless
- Appearance: Welding electrode, grey, insoluble in water
- Inhalation of fumes formed during welding and or cutting may be harmful.
- Looking into the welding / brazing flame with incorrect or insufficient eye protection may cause arc-eye.

## SECTION 3 Composition/information on ingredients

### 3.1 Mixtures

- Non classified ingredients  
Concentration: >95  
CAS Number: -  
EC Number: -  
R/H Phrases: -  
Symbols: -  
Categories:
- trisodium hexafluoroaluminate  
Concentration: <10%  
CAS Number: 13775-53-6  
EC Number: 237-410-6  
R/H Phrases: H372 \*\*, H332, H302, H411, R20/22, R48/23/25, R51/53  
Symbols: GHS08, GHS07, GHS09, T, N  
Categories: STOT RE 1 Acute Tox. 4 Acute Tox. 4 Aquatic Chronic 2

## SECTION 4 First aid measures

### 4.1 Description of first aid measures

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- When in doubt or symptoms persist, seek medical attention
- 
- IF ON SKIN: Immerse in cool water/wrap in wet bandages (P302+P334).

**SECTION 4 First aid measures (....)**

- In case of burns immediately cool affected skin as long as possible with cold water
  - Get medical advice/attention (P313).
  - 
  - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).
  - When in doubt or symptoms persist, seek medical attention
- 4.2 Most important symptoms and effects, both acute and delayed
- Inhalation of fumes formed during welding and or cutting may be harmful.
  - May cause blistering of the skin
  - Can cause damage to the eyes
- 4.3 Indication of any immediate medical attention and special treatment needed
- No information available
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**SECTION 5 Fire-fighting measures**

- 5.1 Extinguishing media
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- 5.2 Special hazards arising from the substance or mixture
- Smoke from fires is irritating
- 5.3 Advice for firefighters
- Smoke from fires is irritating
  - Wear Positive-Pressure Breathing Apparatus
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**SECTION 6 Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures
- No special precautions are required for this product
- 6.2 Environmental Precautions
- No special precautions are required for this product
- 6.3 Methods and material for containment and cleaning up
- Remove by mechanical means
- 6.4 Reference to other sections
- None
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**SECTION 7 Handling and storage**

- 7.1 Precautions for safe handling
- Ensure adequate ventilation
  - Wear protective clothing as per section 8
- 7.2 Conditions for safe storage, including any incompatibilities
- Keep in a cool, dry place
  - Protect from moist air
- 7.3 Specific end use(s)
- Contact supplier for further information
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**SECTION 8 Exposure controls/personal protection**

- 8.1 Control parameters

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**SECTION 8 Exposure controls/personal protection (....)**

- TLV (TWA) 5 mg/m<sup>3</sup> (Welding fumes)

**8.2 Exposure controls**

- If practicable, engineering controls should be provided where airborne concentrations exceed exposure limits

**8.3 Occupational exposure controls**

- Wear suitable protective clothing, including eye/face protection and gloves (leather are recommended)
  - Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
  - Wear suitable filter lenses when welding / cutting.
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**SECTION 9 Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Odour: Odourless
- Appearance: Welding electrode, grey, insoluble in water
- pH - not applicable
- Boiling point - not applicable
- Vapour pressure - not applicable
- Vapour density - not applicable
- Melting point 420 °C to 820 °C at 760 mm /Hg
- Insoluble in water

**9.2 Other information**

- No information available
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**SECTION 10 Stability and reactivity****10.1 Reactivity**

- This article is considered stable under normal conditions

**10.2 Chemical stability**

- This article is considered stable under normal conditions

**10.3 Possibility of hazardous reactions**

- No hazardous reactions known if used for its intended purpose

**10.4 Conditions to avoid**

- Avoid contact with acids and alkalis
- Avoid contact with moist air

**10.5 Incompatible materials**

- Contact with acids and alkalis may form toxic gases

**10.6 Hazardous Decomposition Products**

- Decomposition products may include toxic and irritant fumes
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**SECTION 11 Toxicological information****11.1 Information on toxicological effects**

- The product is harmless as it is. Dangers when used: · UV and infrared radiation · Fumes and dust · Electric shocks can kill.

**SECTION 11 Toxicological information (....)**

- Inhalation  
Inhalation of fumes formed during welding and or cutting may be harmful.
  - Contact with skin  
May cause blistering of the skin  
May cause allergic reaction in susceptible people
  - Contact with eyes  
Can cause damage to the eyes
  - Ingestion  
Not applicable
  - Carcinogenicity  
No information available
  - Teratogenicity  
No information available
  - Mutagenicity  
No information available
- 11.2 Contact with eyes
- Can cause damage to the eyes
- 11.3 Contact with skin
- May cause blistering of the skin
  - May cause allergic reaction in susceptible people
- 11.4 Ingestion
- Not applicable
- 11.5 Inhalation
- Inhalation of fumes formed during welding and or cutting may be harmful.
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**SECTION 12 Ecological information**

- 12.1 Toxicity
- On available data, substance is not harmful to aquatic life
- 12.2 Persistence and degradability
- No information available
- 12.3 Bioaccumulation Potential
- Bioaccumulation of the components in this product is insignificant.
- 12.4 Mobility in soil
- Sinks in water
- 12.5 Results of PBT and vPvB assessment
- Not a PBT according to REACH Annex XIII
- 12.6 Other Adverse Effects
- No environmental problems are expected when the product is used / handled correctly. In its intended use, the product will not be released into the environment.
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**SECTION 13 Disposal considerations**

- 13.1 Waste treatment methods
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
  - Disposal should be in accordance with local, state or national legislation
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**SECTION 13 Disposal considerations (....)**

## 13.2 Classification

- EU Waste class: -
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**SECTION 14 Transport information**

Not classified as hazardous for transport

## 14.1 UN

- UN No.: Not applicable
- Proper Shipping Name: Not applicable
- Hazard Class: Not applicable
- Packing Group: Not applicable

## 14.2 Environmental hazards

- Not Classified

## 14.3 Special precautions for user

- Not classified as hazardous for transport

## 14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

## 14.5 Road/Rail (ADR/RID)

- ADR UN No.: Not applicable
- Proper Shipping Name: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable

## 14.6 Sea (IMDG)

- IMDG UN No.: Not applicable
- Proper Shipping Name: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Pack Group.: Not applicable
- IMDG EmS: Not applicable

## 14.7 Air (ICAO/IATA)

- ICAO UN No.: Not applicable
- Proper Shipping Name: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

## 14.8 DOT / CFR (US Department of Transportation)

- Identification Number: Not applicable
  - DOT Proper Shipping Name: Not applicable
  - DOT Labels: Not applicable
  - Product RQ (lbs): Not applicable
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**SECTION 15 Regulatory information**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

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**SECTION 15 Regulatory information (....)**

- Dangerous Substances Directive (67/548/EEC). Classification, packaging and labelling of dangerous substances
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations

**15.2 Chemical Safety Assessment**

- None
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**SECTION 16 Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H332: Harmful if inhaled. H372: Causes damage to organs through prolonged or repeated exposure. H411: Toxic to aquatic life with long lasting effects. R20/22: Harmful by inhalation and if swallowed. R48/23/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The most up-to-date version of this MSDS can be found on [www.wilhelmsen.com/shipsservice](http://www.wilhelmsen.com/shipsservice)

**OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES**

Wilhelmsen Ships Service Level 17, 636 St Kilda Road Melbourne Vic 3004 AUSTRALIA

Tel: +61 3 9630 0900 Emergency 24hrs: +61 3 9630 0998

Wilhelmsen Ships Service INC 210 Edgewater Street US-10305 Staten Island New York United States Telephone daytime: (+1) 718 815 1310 Fax: (+1) 718 233 3268

Wilhelmsen Ships Service INC 2200 W. Pacific Coast Highway US-90810 Long Beach California, United States Tel (+1) 562 624 8888 Fax (+1) 562 624 1011

Wilhelmsen Ships Service INC 701 Ashland Ave. Ashland Center Two, Bay 12 US- 19032 Folcroft Pennsylvania United States Tel (+1) 610 586 7801 Fax (+1) 215 701 0646

Wilhelmsen Ships Service INC. 9400 New Century Drive US-77507 Pasadena Texas United States Telephone daytime: (+1) 281 867 2000 Fax: (+1) 281 867 2800

Wilhelmsen Ships Service Ltd. Unit 3A NewtonsCourt Crossways DA2 6QL Dartford, Kent United Kingdom Tel (+44) 1322 282 412 Fax (+44) 1322 284 774

Wilhelmsen Ships Service Ltda Rua Bispo Lacerda nos.61/67 Del Catilho BR 21051120 Rio de Janeiro Brazil Tel (+55) 21 25 82 8000 Fax (+55) 21 25 82 8001

Wilhelmsen Ships Service (S) Pte Ltd 186 Pandan Loop Singapore 128376 Tel (+65) 6395 4545

Wilhelmsen Ships Service Co., Ltd 12-31 Torihama-cho Kanazawa-shi Yokohama-shi JP-236 0002, Japan Tel (+81) 45 775 0012 Fax (+81) 45 775 0070

Wilhelmsen Ships Service Hellas SA 100, D. Moutsopoulou & Serifou str GR-185 41 Piraeus Greece

Tel (+ 30) 210 4239100 Fax (+ 30) 210 4212480

Wilhelmsen Ships Service AS U.A.E . Fl 24 Executive Heights, Tecom C Sheikh Zayed Road (East) Dubai United Arab Emirates Tel (+971) 4 382 3888

Wilhelmsen Ships Service AS, Willem Barentszstraat 50 3165 AB Rotterdam-Albrandswaard, the Netherlands. Tel (+31) 10 4877 777

The product consists out of a core wire with extruded coating. the wire consists out of

