

## SAFETY DATA SHEET

**1 Identification of the substance or preparation and of the company/undertaking**

## 1.1 Product identifier

Product Name: WELDING ELECTRODE LHH 314H  
Datasheet Number: 699686-r 1. 0. 0  
Product Part Number: 699298: 4.0 x 450 mm (54 Electrodes, 5.5 kg),  
699306: 5.0 x 450 mm (36 Electrodes, 5.5 kg),  
699678: 4.0 x 450 mm (162 Electrodes, 17 kg),  
699686: 5.0 x 450 mm (108 Electrodes, 17 kg)  
Head Office:: Wilhelmsen Ships Service AS  
Address: Strandveien 20, N-1324 Lysaker Norway, Tel:(+47) 67 58 4550

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

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 10 4877 777  
Fax: +31 10 4877 888  
Responsible Person: Patrick Rijdsdijk, Product HSE Manager, Tel.:+31 6 349 440 35  
Email: patrick.rijdsdijk@wilhelmsen.com

## 1.4 Emergency telephone number

-ONLY TO BE USED IN CASE OF AN INCIDENT-  
NCEC: +44 1865 407333, CHEMTREC (800) 424 9300  
American Chemistry Council +1 703 527 3887,  
Greece +30 210 7793777  
Australia: +61 3 9630 0998  
Giftinformasjonssentralen in Norway Tel.: +47 22591300

**2 Hazards identification**

## 2.1 Classification of the substance or mixture

- Not Classified

## 2.2 Label elements

- None

## Hazard phrases

- Not applicable

## Precautionary Phrases

- Not applicable

## Risk Phrases

- Not applicable

## 2 Hazards identification (....)

### Safety Phrases

- Not applicable

### 2.3 Other hazards

- Odour: Odourless
- Appearance: Welding electrode, grey, insoluble in water
- Contact with eyes: Looking into the welding / brazing flame with incorrect or insufficient eye protection may cause arc-eye.
- Contact with skin: May cause allergic reaction in susceptible people, In cases of severe exposure, redness and irritation may develop
- Inhalation: Inhalation of fumes formed during welding and or cutting may be harmful.
- Ingestion: Not regarded as a potential route of exposure.

## 3 Composition/information on ingredients

### 3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases	Symbols
Non classified ingredients	>100%	-	-	-	-

## 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.
- When in doubt or symptoms persist, seek medical attention
- 
- IF ON SKIN: Immerse in cool water/wrap in wet bandages.
- In case of burns immediately cool affected skin as long as possible with cold water
- Get medical advice/attention.
- 
- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- 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 immediate medical attention and special treatment needed

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## 5 Fire-fighting measures

### 5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

## **5 Fire-fighting measures (....)**

### 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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## **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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## **7 Handling and storage**

### 7.1 Precautions for safe handling

- Ensure adequate ventilation
- Wear eye/face protection (S39)
- Wear suitable gloves (S37)

### 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)

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## **8 Exposure controls/personal protection**

### 8.1 Control parameters

- 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

#### Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (leather are recommended)
  - In case of insufficient ventilation, wear suitable respiratory equipment (S38)
  - Wear suitable filter lenses when welding / cutting.
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## 8 Exposure controls/personal protection (....)



Gloves



Suit



Visor



No Smoking

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## 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 >600 °C
- Insoluble in water

### 9.2 Other information

- No information available
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## 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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## 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.

#### Inhalation

- Inhalation of fumes formed during welding and or cutting may be harmful.
-

## **11 Toxicological information (....)**

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
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## **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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## **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

Classification

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

## WELDING ELECTRODE LHH 314H

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### 14 Transport information (....)

14.1 UN Number

- n/a

14.2 UN Proper Shipping Name

- n/a

14.3 Transport hazard class(es)

- n/a

14.4 Packing group

- n/a

14.5 Environmental hazards

- Presents no hazard to the environment

14.6 Special precautions for user

- Not classified as hazardous for transport

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

- Not applicable

Other information

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### 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.

15.2 Chemical Safety Assessment

None

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### 16 Other information

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

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 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 product consists out of a core wire with extruded coating, the wire consists out of Cr/Ni steel.

The information on ingredients in section 2 concerns the coating of the electrode

The most up-to-date version of this MSDS can be found on [WWW.WILHELMTSEN.COM](http://WWW.WILHELMTSEN.COM)

#### OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

For addresses of other Wilhelmsen Ships Service offices, please refer to [www.wilhelmsen.com/shipsservice](http://www.wilhelmsen.com/shipsservice)

Wilhelmsen Ships Service Level 1, 39 Park Street South Melbourn, Vic 3205 Australian Tel:+61 3 9630 0900  
Emergency 24hrs: +61 3 9630 0998

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## WELDING ELECTRODE LHH 314H

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### 16 Other information (....)

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