

## SAFETY DATA SHEET

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

Product Name: **UNIVERSALLOY**  
 Datasheet Number: 575456 4. 0. 0  
 Use of the substance/preparation: Flame spraying powder  
 Name of Supplier: Wilhelmsen Ships Service AS  
 Address of Supplier: Willem Barentszstraat 50  
 3165AB  
 Rotterdam  
 The Neherlands  
 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  
 Name of Manufacturer: Wilhelmsen Ships Service AS  
 Address of Manufacturer: Strandveien 20  
 P.O.Box 33  
 NO-1324 LYSAKER  
 Norway  
 Busines Unit Maintenance & Repair  
 Telephone: +47 67 584550  
 Emergency Telephone: **\*\*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

**2 Hazards identification**

- Odour: Odourless
- Appearance: powder, grey, insoluble in water
- Contact with eyes: Causes redness and irritation
- Contact with skin: In cases of severe exposure, irritation may develop
- Inhalation: Inhalation of fumes formed during welding and or cutting may be harmful.
- Limited evidence of carcinogenic effect (R40)
- May cause sensitisation by skin contact (R43)



Harmful

**3 Composition/information on ingredients**

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Nickel	90	7440-02-0	231-111-4	40, 43	Xn
Aluminium powder (pyrophoric)	5	7429-90-5	231-072-3	15, 17	F
Molybdenum	5	-	-	-	-

\*See Section 16

## 4 First aid measures

### Contact with skin

- After contact with skin, wash immediately with plenty of soap and water (S28)
- 
- In the event of burns from the molten liquid, do not attempt to remove adhering material
- Burned skin must be flushed with large amounts of cold water.
- Burns must be treated by a physician.

### Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Seek medical advice if necessary

### Ingestion

- Induce vomiting (only if patient is conscious)
- Never make an unconscious person vomit or drink fluids
- Obtain immediate medical attention

### Inhalation

- Inhalation is unlikely to occur
- Remove patient to fresh air
- Seek medical advice if necessary

### General

- If you feel unwell, seek medical advice (show the label where possible) (S44)
- 

## 5 Fire-fighting measures

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
  - Do not use water
  - Wear Positive-Pressure Breathing Apparatus
- 

## 6 Accidental release measures

### Personal Precautions

- Wear protective clothing as per section 8

### Environmental Precautions

- Do not flush spilt material into any public water system

### Clean Up Actions

- Use vacuum cleaner to collect spilled material
- 

## 7 Handling and storage

### Handling

- No special precautions are required for this product
- Use only in well ventilated areas (S51)
- Use good personal hygiene practices

### Storage

- Keep container tightly closed (S7)
  - Keep only in the original container in a cool, well ventilated place away from acids and alkalis (S3/9/14/49)
- 

## 8 Exposure controls and personal protection

## 8 Exposure controls and personal protection (....)

### Exposure Limits

- TLV (TWA) 1mg/m<sup>3</sup> (Ni)
- TLV (TWA) 5mg/m<sup>3</sup> (Aluminium powder (pyrophoric))

### Exposure controls

- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

### Occupational exposure controls

- Where an air-purifying respirator is suitable, use EN143 type P-S or P-SL, or EN149 type FFP-S or FFP-SL
- Wear suitable protective clothing, including eye/face protection and gloves (leather are recommended)



Gloves



Suit



Goggles

Respirator

---

## 9 Physical and chemical properties

- Odour: Odourless
  - Appearance: powder, grey, insoluble in water
  - pH - not applicable
  - Melting point >1400 °C at 760 mm /Hg
  - Water solubility <1 g/l
  - Density >>1000 kg/m<sup>3</sup>
- 

## 10 Stability and reactivity

- No hazardous reactions known if used for its intended purpose, Stable at least up to 400 deg C
  - Avoid contact with acids and alkalis
- 

## 11 Toxicological information

### Toxicological information

- No experimental data available

### Inhalation

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

### Contact with skin

- May cause sensitisation by skin contact (R43)

### Contact with eyes

- Causes irritation

### Ingestion

- Not regarded as a potential route of exposure.

### Carcinogenicity

- Limited evidence of carcinogenic effect (R40)
- 

## 12 Ecological information

### Ecotoxicity

- No information available
-

## 12 Ecological information (....)

### Mobility

- Sinks in water

### Persistence and Biodegradability

- No information available

### Bioaccumulation Potential

- No information available

### Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly.
- 

## 13 Disposal considerations

### Classification

- EU Waste class: -

### Disposal considerations

- Disposal should be in accordance with local, state or national legislation
- 

## 14 Transport information

### Transport information

- Not classified as hazardous for transport
- 

## 15 Regulatory information

### Risk Phrases

- Limited evidence of carcinogenic effect (R40)
- May cause sensitisation by skin contact (R43)

### Safety Phrases

- Do not breathe dust (S22)
  - Wear suitable protective clothing (S36)
- 

## 16 Other information

Text of R and S phrase codes used in this safety data sheet:- R15: Contact with water liberates extremely flammable gases; R17: Spontaneously flammable in air; R40: Limited evidence of carcinogenic effect; R43: May cause sensitisation by skin contact.