

## SAFETY DATA SHEET

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

**Product Name:** PICKLING GEL  
**Datasheet Number:** 661777 4. 0. 0  
**Use of the substance/preparation:** Cleaning agent  
**Product Part Number:** 661777  
**Name of Supplier:** Wilhelmsen Maritime Services AS  
**Address of Supplier:** Willem Barentszstraat 50  
 3165 AB Rotterdam-Albrandswaard, The Netherlands  
  
**Telephone:** +31 10 4877 777  
**Fax:** +31 10 4877 888  
**Responsible Person:** Leen de Visser, Product HSE Manager, Tel.: +31 6 538 63736  
**Email:** Leen.de.Visser@Wilhelmsen.com  
**Name of Manufacturer:** Wilhelmsen Maritime Services AS, Business Unit Maintenance & Repair  
**Address of Manufacturer:** Strandveien 20  
 P.O.Box 33  
 NO-1324 LYSAKER  
 Norway.  
**Telephone:** +47 67 584550  
**Emergency Telephone:** NCEC: +44 1865 407333, CHEMTREC (800) 424 9300  
 American Chemistry Council +1 703 527 3887, Greece +30 210 7793777

### 2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Nitric acid	15-25	7697-37-2	231-714-2	8, 35	O, C
Hydrogen fluoride	2-6	7664-39-3	231-634-8	26/27/28, 35	T+, C
Non classified ingredients	60-90	-	-	-	-

\*See Section 16

### 3 Hazards identification

- Odour: Unpleasant odour
- Appearance: Liquid, viscous, colourless, soluble in water
- Contact with eyes: Corrosive to eyes
- Contact with skin: Causes burns (R34), Toxic by inhalation, in contact with skin and if swallowed (R23/24/25)
- Ingestion: Can cause damage to the stomach lining



Toxic



Corrosive

### 4 First aid measures

#### Contact with skin

- Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water
- Seek medical attention if irritation persists

#### Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Seek immediate medical attention

#### Ingestion

- Do not induce vomiting
- Give plenty of water to drink
- Never give anything by mouth to an unconscious person

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#### 4 First aid measures (....)

- Seek immediate medical attention

##### Inhalation

- Inhalation is unlikely to occur
- Remove patient to fresh air
- Never give anything by mouth to an unconscious person
- Give plenty of water to drink
- Obtain immediate medical attention

##### General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

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#### 5 Fire-fighting measures

- Non combustible
- Smoke from fires is corrosive, Nitrogen oxides may be formed
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Smoke from fires is corrosive. Take precautions to protect personnel from exposure

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#### 6 Accidental release measures

##### Personal Precautions

- Wear protective clothing as per section 8

##### Environmental Precautions

- No special precautions are required for this product
- Do not flush spilt material into any public water system

##### Immediate Actions

- Shut off source of leak if safe to do so
- Use appropriate containment to avoid environmental contamination (S57)

##### Clean Up Actions

- Absorb spillage in inert material and shovel up
- Ventilate the area and wash spill site after material pick-up is complete

##### Special Precautions

- Wear protective clothing as per section 8
- Do not use metal containers for spilled liquid

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#### 7 Handling and storage

##### Handling

- Wear protective clothing as per section 8
- Avoid contact with skin and eyes (S24/25)
- Eyewash bottles should be available

##### Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Opened containers should be carefully resealed and stored in an upright position
- Recommended storage temperature between 5 and 40 °C

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#### 8 Exposure controls and personal protection

##### Exposure Limits

- TLV (TWA) 5 mg/m<sup>3</sup> (Nitric acid)
- STEL 2.5 mg/m<sup>3</sup> (Hydrogen fluoride)

##### Exposure controls

- The undiluted product must not be used in a confined space without good ventilation

##### Occupational exposure controls

- Where an air-purifying respirator is suitable, use EN141 or EN405, type B
- Wear face mask giving complete face protection
- Wear suitable clothing providing resistance to acids
- Wear plastic or rubber gloves



Visor



Gloves



Suit



Respirator

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

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### 9 Physical and chemical properties

- Odour: Unpleasant odour
- Appearance: Liquid, viscous, colourless, soluble in water
- pH <1 at 1 % concentration
- Boiling point - not known
- Vapour pressure <0.01 kPa at 20 deg C
- Vapour density - not known
- Freezing point <0 °C at 760 mm/Hg
- Completely soluble in water
- Specific gravity (water=1) 1.2 - 1.3
- Non combustible
- Viscosity ~ 2000 mPa.s at 20 deg C

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### 10 Stability and reactivity

- No hazardous reactions known if used for its intended purpose
- Avoid overheating, Avoid contact with alkalis (strong bases)
- Contact with alkali metals liberates flammable gas, Incompatible with alkalis (strong bases)
- See Section 5, Decomposition products may include nitrogen oxides
  
- Contact with nitrite (e.g. Dieselguard NB, Rocor NB Liquid) liberates toxic gas.

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### 11 Toxicological information

#### Toxicological information

- LD50 (oral, rat) 680 mg/kg

#### Inhalation

- Can cause damage to the respiratory system

#### Contact with skin

- Causes burns (R34)

#### Contact with eyes

- Causes burns (R34)

#### Ingestion

- The ingestion of significant quantities may cause damage to digestive system

#### Carcinogenicity

- No evidence of carcinogenic effects

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### 12 Ecological information

#### Ecotoxicity

- May cause acute effects in the aquatic environment
- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

#### Mobility

- Completely soluble in water

#### Persistence and Biodegradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

#### Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

#### 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.
- Presents little or no hazard to the aquatic environment

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### 13 Disposal considerations

#### Classification

- EU Waste class: 06.01
- This material and/or its container must be disposed of as hazardous waste

#### Disposal considerations

- 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

**14 Transport information**

Toxic



Corrosive

Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Nitric acid, mixture)

UN

Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Nitric acid, mixture)  
 UN No.: 2922  
 Hazard Class: 8      Packing Group: II

Road/Rail (ADR/RID)

Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Nitric acid, mixture)  
 ADR UN No.: 2922  
 ADR Hazard Class: 8      Tremcard: 80S2922-II

Sea (IMDG)

Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Nitric acid, mixture)  
 IMDG UN No.: 2922  
 IMDG Hazard Class.: 8      IMDG Pack Group.: II  
 IMDG EmS: F-A, S-B      IMDG subrisk: 6.1  
 IMDG Labels: 8, 6.1      IMDG Flashpoint: N/A

Air (ICAO/IATA)

Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Nitric acid, mixture)  
 ICAO Un No.: 2922  
 ICAO Hazard Class.: 8      ICAO Packing Group.: II  
 ICAO subrisk: 6.1      ICAO Labels: 8,6.1, CAO  
 ICAO Flashpoint: N/A

DOT / CFR (US Department of Transportation)

DOT Proper Shipping Name: Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Nitric acid, mixture)  
 Hazardous Material: Hydrofluoric acid, Nitric acid  
 Hazard Class: 8      Identification Number: UN 2922  
 Product RQ (lbs): 5000      DOT subrisk: 6.1  
 DOT Labels: 8, 6.1      DOT Flashpoint: N/A

- Forbidden on passenger aircraft

**15 Regulatory information**

Toxic



Corrosive

**Risk Phrases**

- Toxic by inhalation, in contact with skin and if swallowed (R23/24/25)
- Causes severe burns (R35)

**Safety Phrases**

- Keep container tightly closed and at a temperature not exceeding 45 °C (S7/47)
- Do not breathe vapour/fumes (S23)
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- Avoid release to the environment. Refer to special instructions/Safety data sheets (S61)

**16 Other information**

Text of R and S phrase codes used in this safety data sheet:- R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed; R35: Causes severe burns; R8: Contact with combustible material may cause fire.

## 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

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)