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**SAFETY DATA SHEET**

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**SECTION 1 Identification of the substance or preparation and of the company/undertaking****1.1 Product identifier**

- Product Name: PENETRON PLUS
- Product Part Number: 575505 (12 x 0.5 liter)

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

- Lubricant

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

- Responsible Person:

**Head Office:**

Wilhelmsen Ships Service AS  
Strandveien 20, N1324 Lysaker,  
Norway Tel: (47) 6349 440 35

**Supplier:**

Wilhelmsen Ships Service AS  
Willem Barentszstraat 50  
3165AB Rotterdam  
Telephone: +31 4877 777  
Fax: +31 4877 888  
The Netherlands

Other suppliers SEE SECTION 16!!!

For quotations contact your local Customer Services

- Responsible Person:

Product HSE Manager, Tel.: +31 10 4877775  
Email: WSS.GLOBAL.SDSINFO@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

Giftinformasjonsentralen in Norway Tel.: +47 22591300

Wilhelmsen Ships Service, Melbourne, AUSTRALIA Emergency 24hrs: +61 3 9630 0998

**\*\*FOR QUOTATIONS PLEASE CONTACT YOUR LOCAL CUSTOMER SERVICES\*\***

**SECTION 2 Hazards identification****2.1 Classification of the substance or mixture**

- Classification according to Directive 67/548/EEC or Directive 1999/45EC
- Symbols: Xn
- Harmful: may cause lung damage if swallowed (R65)
- Repeated exposure may cause skin dryness or cracking (R66)
- 
- Classification according to Regulation (EC) No 1272/2008
- Asp. Tox. 1
- Eye Irrit. 2
- Aquatic Chronic 3

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

### 2.2 Label elements



GHS: health hazard



GHS: exclamation mark

- Signal Word: Danger
- 
- Contains:
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
- 2-(2-Butoksyethoxy)ethanol
- Methyl Salicylate
- 
- Hazard phrases
  - May be fatal if swallowed and enters airways (H304).
  - Repeated exposure may cause skin dryness or cracking (EUH066).
  - Causes serious eye irritation (H319).
  - Harmful to aquatic life with long lasting effects (H412).
- Precautionary Phrases
  - Avoid breathing dust/fume/gas/mist/vapours/spray (P261).
  - Wear protective gloves/protective clothing/eye protection/face protection (P280).
  - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
  - Dispose of contents/container to an authorised waste collection point (P501)

### 2.3 Other hazards

- Not applicable
- Appearance: Liquid
- Odour: Characteristic odour, Hydrocarbon odour

## SECTION 3 Composition/information on ingredients

### 3.1 Mixtures

- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
  - REACH NO: 01-21194739 77-17-0004
  - Concentration: 60-100%
  - CAS Number: Not applicable
  - EC Number: 919-164-8
  - R/H Phrases: H304, H412, R65, R66
  - Symbols: GHS08, Xn
  - Categories: Asp. Tox. 1, Aquatic Chronic 3
- Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified
  - REACH NO: 01-21194671 70-45-0002
  - Concentration: 10-30%
  - CAS Number: 64742-52-5
  - EC Number: 265-155-0
  - R/H Phrases: Not applicable
  - Symbols: Not applicable
  - Categories: Not applicable
- Methyl salicylate
  - Concentration: 1-5%
  - CAS Number: 119-36-8
  - EC Number: 204-317-7
  - R/H Phrases: R22/36 - H302, H319
  - Symbols: GHS07, Xn

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**SECTION 3 Composition/information on ingredients (....)**

- Categories: Acute Tox. 4, Eye Irrit. 2
- 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
- Concentration: 1-5%  
CAS Number: 112-34-5  
EC Number: 203-961-6  
R/H Phrases: H319, R36  
Symbols: GHS07, Xi  
Categories: Eye Irrit. 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).
- Obtain immediate medical attention
- 
- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
- Seek medical advice
- 
- IF ON SKIN: Wash with plenty of soap and water (P302+P352).
- Seek medical attention if irritation persists

**4.2 Most important symptoms and effects, both acute and delayed**

- In cases of severe exposure, breathing difficulty may develop
- In cases of severe exposure, coughing may develop
- In cases of severe exposure, dizziness, confusion, headache or stupor may develop
- The ingestion of significant quantities may cause chemical oedema
- Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis

**4.3 Indication of any immediate medical attention and special treatment needed**

- No information available
- 

**SECTION 5 Fire-fighting measures****5.1 Extinguishing media**

- In case of fire: use carbon dioxide or dry agent for extinction (P370+P378)
- In case of fire: use dry powder/BCF for extinction (P370+P378)
- In case of fire: use dry sand or dry salt for extinction (P370+P378)
- In case of fire: use water or foam for extinction (P370+P378)

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

- Auto-ignition point 230 deg C at 760 mm Hg
- Flash point >63 deg C (CC)
- Decomposition products may include carbon oxides

**5.3 Advice for firefighters**

- In the event of an adjacent fire, cool containers with water spray
  - Flash point >63 deg C (CC)
  - Decomposition products may include carbon oxides
- 

**SECTION 6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Wear protective clothing as per section 8
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## SECTION 6 Accidental release measures (....)

### 6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses

### 6.3 Methods and material for containment and cleaning up

- Keep away from heat/sparks/open flames/hot surfaces. – No smoking (P210).
- Soak up with inert absorbent
- Wash spill site with water and detergent

### 6.4 Reference to other sections

- See Section 13
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## SECTION 7 Handling and storage

### 7.1 Precautions for safe handling

- The usual precautions for handling chemicals should be observed

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep away from open flames, hot surfaces and sources of ignition.

### 7.3 Specific end use(s)

- Not applicable
- 

## SECTION 8 Exposure controls/personal protection

### 8.1 Control parameters

- 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether  
CAS:112-34-5  
Lowest value: TLV (TWA) 10 ppm, 50mg/m<sup>3</sup>  
European Union: TLV (TWA) 10 ppm, 67,5 mg/m<sup>3</sup>
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  
MEL / LTEL 275 mg/m<sup>3</sup>

### 8.2 Exposure controls

- No special precautions are required for this product

### 8.3 Occupational exposure controls

- Ensure adequate ventilation
- Eyewash bottles should be available
- Use good personal hygiene practices
- Wear suitable respiratory protection. Gas cartridge (organic substances).
- Wear rubber or PVC gloves
- Penetration time of glove material:  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.



Gloves



Goggles



Respirator

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## SECTION 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Odour: Characteristic odour, Smells of hydrocarbon
  - Appearance: Liquid, colourless to yellow, insoluble in water
  - Boiling point 180 °C to 270 °C at 760 mm /Hg
  - Density: Density 0,8 - 0,82 g/cm<sup>3</sup> at 20 deg C
  - Insoluble in water
-

**SECTION 9 Physical and chemical properties (....)**

- Flash point >63 deg C (CC)
- Auto-ignition point >200 deg C
- Upper explosive limit 7 % (in air)
- Lower explosive limit 0.6 % (in air)

## 9.2 Other information

- No information available
- 

**SECTION 10 Stability and reactivity**

## 10.1 Reactivity

- This article is considered stable under normal conditions

## 10.2 Chemical stability

- 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 overheating

## 10.5 Incompatible materials

- Incompatible with strong oxidizing substances

## 10.6 Hazardous Decomposition Products

- No hazardous decomposition products known
- 

**SECTION 11 Toxicological information**

## 11.1 Information on toxicological effects

- No experimental data available

## 11.2 Contact with eyes

- Causes irritation

## 11.3 Contact with skin

- Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis

## 11.4 Ingestion

- Not regarded as a potential route of exposure.
- Aspiration hazard
- The ingestion of significant quantities may cause damage to lungs

## 11.5 Inhalation

- Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
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**SECTION 12 Ecological information**

## 12.1 Toxicity

- LC50 (fish) (Naphtenes) >1000 mg/l (96 hr)
- LC50 (fish) (Hydrocarbones) >10-100 mg/l (96 hr)
- Biodegradability. OECD-test. 28 days <60 % (Naphtenes)
- Biodegradability. OECD-test. 28 days >60 % (Hydrocarbones)
- EC50 (daphnia) (Methyl salicylate) 50 mg/l (24 hr)

## 12.2 Persistence and degradability

- Most components in this product are not readily biodegradable.
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**SECTION 12 Ecological information (....)**

## 12.3 Bioaccumulation Potential

- Hydrocarbon solvents have the potential to bioaccumulate.

## 12.4 Mobility in soil

- Insoluble in water

## 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

## 12.6 Other Adverse Effects

- No information available
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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

## 13.2 Classification

- EU Waste class: 07 01 01
- 

**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

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

- Not Classified
- 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

**SECTION 14 Transport information (....)**

## 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
- 

**SECTION 15 Regulatory information**

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

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to The Dangerous Substances Directive (67/548/EEC)
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010

## 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. H304: May be fatal if swallowed and enters airways. H319: Causes serious eye irritation. H412: Harmful to aquatic life with long lasting effects. R36: Irritating to eyes. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking. 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

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**SECTION 16 Other information (....)**

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**

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