

## SAFETY DATA SHEET

According to Directive 67/548/EEC & Directive 1999/45/EC

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

|                        |                 |
|------------------------|-----------------|
| GHS Product Identifier | Not applicable. |
| Chemical Name          | Not applicable. |
| Trade name(s)          | PW280PP-81      |
| CAS No.                | Mixture         |
| EINECS No.             | Mixture         |

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

|                      |                             |
|----------------------|-----------------------------|
| Identified use(s)    | Synthetic Bearing Lubricant |
| Uses advised against | None.                       |

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

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Company Identification    | Permawick Company<br>3110 Permawick Drive<br>Columbus, IN, 47201               |
| Telephone                 | +1 (812) 376-0703                                                              |
| Fax                       | +1 (812) 372-1410                                                              |
| E-Mail (competent person) | sales@permawick.com                                                            |
| Only Representative       | Experien Chemical Services (Europe) Limited<br>PO Box 170<br>Thirsk YO7 9AN UK |
| Telephone                 | +44 7791 573385 (UK 9am to 5pm)                                                |

#### 1.4 Emergency telephone number

|                     |                                                                                                                        |
|---------------------|------------------------------------------------------------------------------------------------------------------------|
| Emergency Phone No. | Monday - Friday, 8 am – 4:30 p.m. (EST) +1 (812) 376-0703<br>CHEMTREC 24 hr. +1 (703) 527-3887 (Collect call accepted) |
|---------------------|------------------------------------------------------------------------------------------------------------------------|

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

|                                             |                |
|---------------------------------------------|----------------|
| Directive 67/548/EEC & Directive 1999/45/EC | Not classified |
|---------------------------------------------|----------------|

#### 2.2 Label elements

|                |      |
|----------------|------|
| Hazard Symbol  | None |
| Risk Phrases   | None |
| Safety Phrases | None |

#### 2.3 Other hazards

Not classified as PBT or vPvB.

#### 2.4 Additional Information

None

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

| Hazardous ingredient(s)                                    | %W/W  | CAS No.    | REACH Registration No. | Classification According to Regulation (EC) No 1278/2008 (CLP) | Classification According to 67/548/EEC |
|------------------------------------------------------------|-------|------------|------------------------|----------------------------------------------------------------|----------------------------------------|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic* | 75-85 | 64742-65-0 | Not applicable^        | Not classified.                                                | Not classified.                        |
| Other non-hazardous                                        | 15-20 | ----       | None                   | None                                                           | None                                   |

Other Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below.: None

\* Contains less than 3% DMSO extractable as measured by IP 346 method. Notes H and L apply.

^ Not yet subject to registration or is exempt.

### 3.3 Additional Information

For full text of R phrases see section 16.

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

|              |                                                                                         |
|--------------|-----------------------------------------------------------------------------------------|
| Inhalation   | Unlikely to be required but if necessary treat symptomatically.                         |
| Skin Contact | Wash affected skin with soap and water.                                                 |
| Eye Contact  | Eyes should be washed with plenty of water. If symptoms occur obtain medical attention. |
| Ingestion    | Unlikely to be required but if necessary treat symptomatically.                         |

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

None

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

None

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

|                                 |                                                                   |
|---------------------------------|-------------------------------------------------------------------|
| -Suitable Extinguishing Media   | Extinguish with waterspray, dry chemical, sand or carbon dioxide. |
| -Unsuitable Extinguishing Media | None anticipated.                                                 |

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

This product may give rise to hazardous fumes in a fire.

### 5.3 Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

- |            |                                                                            |                                                                                                                                              |
|------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | Not normally required                                                                                                                        |
| <b>6.2</b> | <b>Environmental precautions</b>                                           | Use appropriate container to avoid environmental contamination.                                                                              |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery. |
| <b>6.4</b> | <b>Reference to other sections</b>                                         | None                                                                                                                                         |
| <b>6.5</b> | <b>Additional Information</b>                                              | None                                                                                                                                         |

## SECTION 7: HANDLING AND STORAGE

- |            |                                                                     |                            |
|------------|---------------------------------------------------------------------|----------------------------|
| <b>7.1</b> | <b>Precautions for safe handling</b>                                | None                       |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b> |                            |
|            | -Storage Temperature                                                | Store at room temperature. |
|            | -Incompatible materials                                             | Strong oxidising agents.   |
| <b>7.3</b> | <b>Specific end use(s)</b>                                          | Lubricating agent          |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limits

| SUBSTANCE. | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m <sup>3</sup> ) | STEL (ppm) | STEL (mg/m <sup>3</sup> ) | Note: |
|------------|---------|---------------------|------------------------------------|------------|---------------------------|-------|
| None       | ----    | ----                | ----                               | ----       | ----                      |       |

| Biological limit value               |            |         |                        |       |
|--------------------------------------|------------|---------|------------------------|-------|
| Limit value type (country of origin) | SUBSTANCE. | CAS No. | Biological limit value | Note: |
| None known                           | ----       | ----    | ----                   | ----  |

- |              |                                      |      |
|--------------|--------------------------------------|------|
| <b>8.1.2</b> | <b>Recommended monitoring method</b> | None |
|--------------|--------------------------------------|------|

### 8.2 Exposure controls

- |              |                                         |                        |
|--------------|-----------------------------------------|------------------------|
| <b>8.2.1</b> | <b>Appropriate engineering controls</b> | Not normally required. |
|--------------|-----------------------------------------|------------------------|

#### 8.2.2 Personal protection equipment

Eye/face protection



Safety spectacles.

Skin protection (Hand protection/ Other)



Not normally required.

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Respiratory protection

Not normally required.



Thermal hazards

Not normally required.

## 8.2.3 Environmental Exposure Controls

Not normally required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                          |                          |
|------------------------------------------|--------------------------|
| Appearance                               | Liquid                   |
| Colour                                   | Amber.                   |
| Odour                                    | Fuel oil-like.           |
| Odour threshold (ppm)                    | Not available            |
| pH (Value)                               | Not available            |
| Melting point (°C) / Freezing point (°C) | Not available            |
| Boiling point/boiling range (°C):        | Not available            |
| Flash point (°C)                         | 208 [Cleveland Open cup] |
| Evaporation rate                         | Not available            |
| Flammability (solid, gas)                | Not available            |
| Explosive limit ranges                   | Not available            |
| Vapour pressure (Pascal)                 | Not available            |
| Vapour density (Air=1)                   | Not available            |
| Density (g/ml)                           | 0.86 -0.88               |
| Solubility (Water)                       | Negligible.              |
| Solubility (Other)                       | Not available            |
| Partition coefficient (n-Octanol/water)  | Not available            |
| Auto ignition point (°C)                 | Not available            |
| Decomposition temperature (°C)           | Not available            |
| Kinematic Viscosity (cSt) @ 40°C         | 50 -58                   |
| Explosive properties                     | Not explosive.           |
| Oxidising properties                     | Not oxidising.           |

### 9.2 Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

|                                         |                                 |
|-----------------------------------------|---------------------------------|
| 10.1 Reactivity                         | Stable under normal conditions. |
| 10.2 Chemical stability                 | Stable.                         |
| 10.3 Possibility of hazardous reactions | None anticipated.               |
| 10.4 Conditions to avoid                | None                            |
| 10.5 Incompatible materials             | Oxidizers                       |
| 10.6 Hazardous Decomposition Product(s) | Carbon monoxide, Carbon dioxide |

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

Not applicable

#### 11.1.2 Mixtures

|                        |                |
|------------------------|----------------|
| Acute toxicity         | Not available. |
| Irritation             | Not available. |
| Corrosivity            | Not available. |
| Sensitisation          | Not available. |
| Repeated dose toxicity | Not available. |
| Carcinogenicity        | Not available. |

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Mutagenicity  
Toxicity for reproduction

Not available.  
Not available.

## 11.1.3 Substances in preparations / mixtures

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS No. 64742-65-0)

### Acute toxicity

|             |                                    |
|-------------|------------------------------------|
| -Ingestion  | LD50 > 5000 mg/kg (rat)            |
| -Inhalation | LC50 = 2.18 mg/l (4 hour(s)) (rat) |
| -Dermal     | LD50 > 2000 mg/kg (rabbit)         |
| -Irritation | Non-irritant.                      |

### Sensitisation

It is not a skin sensitiser.

### Repeated dose toxicity

Oral NOAEL < 125 mg/kg (rat)  
Inhalation NOAEL > 980 mg/m<sup>3</sup>  
Dermal NOAEL = 1000 mg/kg (rabbit)

### Mutagenicity

Negative

### Carcinogenicity

Negative

## 11.2 Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity -

#### Substances in preparations / mixtures

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS No. 64742-65-0)

#### Acute toxicity

Fish NOEL ≥ 100 mg/l (96 hour) (*P. promelas*)  
Aquatic invertebrates: NOEL ≥ 10,000 mg/l (96 hour) (*G. pulex*)

#### Long Term

Algae NOEL ≥ 100 mg/l (72 hour) (*P. subcapitata*)  
Aquatic invertebrates: NOEL = 10 mg/l (21 days) (*D. magna*)  
Microorganisms NOEL > 2.17 mg/l (4 days)

### 12.2 Persistence and degradability

There is evidence of degradation in soil and water.

### 12.3 Bioaccumulative potential

The substance has low potential for bioaccumulation.

### 12.4 Mobility in soil

The product has low mobility in soil.

### 12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

### 12.6 Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

### 13.2 Additional Information

None known.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 Land transport (ADR/RID)

Not classified as dangerous for transport.

UN number  
Proper Shipping Name  
Transport hazard class(es)  
Packing Group  
Hazard label(s)  
Environmental hazards  
Special precautions for user

### 14.2 Sea transport (IMDG)

Not classified as dangerous for transport.

UN number  
Proper Shipping Name

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Transport hazard class(es)  
Packing Group  
Marine Pollutant  
Special precautions for user

- 14.3 Air transport (ICAO/IATA)** Not classified as dangerous for transport.  
UN number  
Proper Shipping Name  
Transport hazard class(es)  
Packing Group  
Environmental hazards  
Special precautions for user
- 14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- 15.1.1 EU regulations** **Listed**  
Regulation (EC) 2037/2000 - Dangerous to the ozone layer. No.  
Regulation (EC) 850/2004 - Persistent Organic Pollutants No.  
Regulation (EC) 689/2008 - Export/Import of Dangerous Chemicals No.  
Regulation (EC) 1907/2006 - REACH Authorisations and/or restrictions on use No.
- 15.1.2 National regulations** Not established.
- 15.2 Chemical Safety Assessment** Not applicable

## SECTION 16: OTHER INFORMATION

### Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 (CLP): Not classified

### Label elements

GHS Product Identifier None  
Hazard pictogram(s) None  
Signal word(s) None  
Hazard statement(s) None  
Precautionary statement(s) None

**Additional Information** None

**The following sections contain revisions or new statements:** 1-16.

**Risk Phrases and Safety Phrases:** Not applicable

**Training advice:** None.

**Additional Information:** None.

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