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): 284-NP-840-ANTI-LEAK
- 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
  3110 Permawick Drive
  Colombus, 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
  PO Box 170
  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
  CHEMTREC 24 hr. +1 (703) 527-3887 (Collect call accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture


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
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

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

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.
SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Not normally required

6.2 Environmental precautions
Use appropriate container to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up
Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery.

6.4 Reference to other sections
None

6.5 Additional Information
None

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
None

7.2 Conditions for safe storage, including any incompatibilities
- Storage Temperature
  Store at room temperature.
- Incompatible materials
  Strong oxidising agents.

7.3 Specific end use(s)
Lubricating agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Biological limit value (country of origin)</th>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>Biological limit value</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

8.1.2 Recommended monitoring method
None

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Not normally required.

8.2.2 Personal protection equipment

Eye/face protection
Safety spectacles.

Skin protection (Hand protection/ Other)
Not normally required.
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Fibrous</td>
</tr>
<tr>
<td>Colour</td>
<td>Amber to Grey</td>
</tr>
<tr>
<td>Odour</td>
<td>Fuel oil-like</td>
</tr>
<tr>
<td>Odour threshold (ppm)</td>
<td>Not available</td>
</tr>
<tr>
<td>pH (Value)</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point (°C) / Freezing point (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point/boiling range (°C):</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point (°C)</td>
<td>220 [Cleveland Open cup]</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosive limit ranges</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure (Pascal)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour density (Air&lt;1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure (mg/L)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure (mg/cm³)</td>
<td>Not available</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>0.88</td>
</tr>
<tr>
<td>Solubility (Water)</td>
<td>Negligible</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-Octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto ignition point (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>Not available</td>
</tr>
<tr>
<td>Kinematic Viscosity (cSt) @ 40°C</td>
<td>128</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not oxidising</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Effect</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Irritation</td>
<td>Not available</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Not available</td>
</tr>
<tr>
<td>Sensitisation</td>
<td>Not available</td>
</tr>
<tr>
<td>Repeated dose toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not available</td>
</tr>
</tbody>
</table>
284-NP-840-ANTI-LEAK

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 sensitisier.

Repeated dose toxicity
Oral NOAEL < 125 mg/kg (rat)
Inhalation NOAEL > 980 mg/m³ (4 hour(s)) (rat)
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)
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)
UN number
Proper Shipping Name
Transport hazard class(es)

Not classified as dangerous for transport.
Packing Group
Marine Pollutant
Special precautions for user

14.3 Air transport (ICAO/IATA)
UN number
Proper Shipping Name
Transport hazard class(es)
Packing Group
Environmental hazards
Special precautions for user

Not classified as dangerous for transport.

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) 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.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Permawick gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Permawick accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.