



# P2AO350HT-NP-840

## SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

### 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             | P2AO350HT-NP-840 |
| 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

|   |                   |
|---|-------------------|
| According to Regulation (EC) No. 1272/2008 (CLP): | Aquatic Chronic 3 |
|---|-------------------|

#### 2.2 Label elements

|                            |  |
|----------------------------|--|
| Hazard pictogram(s)        | None   |
| Signal word(s)             | None   |
| Hazard statement(s)        | Harmful to aquatic life with long lasting effects. |
| Precautionary statement(s) | Avoid release to the environment.                  |

#### 2.3 Other hazards

Not classified as PBT or vPvB.

#### 2.4 Additional Information

May produce an allergic reaction in persons already sensitised.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Regulation (EC) No. 1272/2008 (CLP).

| Hazardous ingredient(s)  | %W/W    | EC No. and CAS#        | According to Regulation (EC) No. 1272/2008 (CLP)  |
|--|---------|------------------------|---|
| tris(methylphenyl) phosphate ^                                   | 0 – 1.0 | 215-548-8<br>1330-78-5 | Repr. 2; H361<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410                             |
| 1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl- ^ | 0 – 0.1 | -----<br>94270-86-7    | Skin Irrit. 2; H315<br>Skin Sens. 1; H317<br>Aquatic Acute 1; H400<br>Aquatic Chronic 2; H411 |

^ Not yet subject to REACH registration.

**3.3 Additional Information** - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below. **None**

For full text of H/P 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** Avoid skin contact. Avoid contact with eyes.

**6.2 Environmental precautions** Use appropriate container to avoid environmental contamination.

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- 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** Avoid skin contact. Avoid contact with eyes.
- 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**

| 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                           | ----       | ----    | ----                   | ----  |

- 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** Use appropriate container to avoid environmental contamination. Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the

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local authority for advice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|   |                                       |
|---|---------------------------------------|
| Appearance                                  | Granular                              |
| Colour.                                     | Gray to Gray-Brown wet fibrous.       |
| Odour                                       | Faint Ester-like.                     |
| Odour threshold (ppm)                       | Not available                         |
| pH (Value)                                  | Not available                         |
| Melting point (°C) / Freezing point (°C)    | Not available                         |
| Boiling point/boiling range (°C):           | Not determined.                       |
| Flash point (°C)                            | 235 [Open cup]                        |
| Evaporation rate                            | Not applicable                        |
| Flammability (solid, gas)                   | Not applicable                        |
| Explosive limit ranges                      | Not applicable                        |
| Vapour pressure (Pascal)                    | < 1                                   |
| Vapour density (Air=1)                      | > 1                                   |
| Density (g/ml)                              | 0.854                                 |
| Solubility (Water)                          | Insoluble.                            |
| Solubility (Other)                          | Not available                         |
| Partition coefficient (n-Octanol/water)     | Not available                         |
| Auto ignition point (°C)                    | >282                                  |
| Decomposition temperature (°C)              | Not available                         |
| Kinematic Viscosity (cSt) @ 40°C (Base Oil) | 68 (Listed in: Product specification) |
| 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 - By analogy with similar materials:

|                                   |                |
|-----------------------------------|----------------|
| Acute toxicity                    | Not available. |
| Skin corrosion/irritation         | Not available. |
| Serious eye damage/irritation     | Not available. |
| Respiratory or skin sensitization | Not available. |
| Germ cell mutagenicity            | Not available. |
| Carcinogenicity                   | Not available. |
| Reproductive toxicity             | Not available. |
| STOT - single exposure            | Not available. |
| STOT - repeated exposure          | Not available. |
| Aspiration hazard                 | Not available. |

#### 11.1.3 Substances in preparations / mixtures

1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl- (CAS No.94270-86-7)

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|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | Ingestion: LD50 3313 mg/kg (rat)<br>Inhalation: No data<br>Dermal: LD50 > 2000 mg/kg (rat) |
| Skin corrosion/irritation         | May cause irritation.  |
| Serious eye damage/irritation     | May cause irritation.  |
| Respiratory or skin sensitization | May cause an allergic skin reaction.   |
| Germ cell mutagenicity            | Not to be expected.  |
| Carcinogenicity                   | Not to be expected.  |
| Reproductive toxicity             | Not to be expected.  |
| STOT - single exposure            | Not to be expected.  |
| STOT - repeated exposure          | Not to be expected.  |
| Aspiration hazard                 | No data  |

## tris(methylphenyl) phosphate (CAS No. 1330-78-5)

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | Ingestion: LD50 > 20,000 mg/kg (rat)<br>Inhalation: LC50 > 11.1 mg/l (rat) (1 hour(s))<br>Dermal: LD50 3.7 g/kg (rabbit) |
| Skin corrosion/irritation         | Slightly irritant (Skin).  |
| Serious eye damage/irritation     | Non-irritant to rabbit eyes.   |
| Respiratory or skin sensitization | It is not a skin sensitiser.   |
| Germ cell mutagenicity            | Negative   |
| Carcinogenicity                   | No data  |
| Reproductive toxicity             | Suspected of damaging fertility or the unborn child.<br>LOAEL = 20 mg/kg (Developmental)<br>NOEL = 20 mg/kg (Maternal)   |
| STOT - single exposure            | Not to be expected.  |
| STOT - repeated exposure          | Not to be expected. Oral: NOAEL = 1000 mg/kg (rat)   |
| Aspiration hazard                 | No data  |

### 11.2 Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity -

#### Substances in preparations / mixtures

##### 1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl- (CAS No.94270-86-7)

|                           |  |
|---------------------------|--|
| <b>Acute toxicity</b>     | Fish: LC50 = 1.3 mg/l (96 hour) ( <i>Brachydanio rerio</i> )<br>Aquatic invertebrates: EC50 = 2.05 mg/l (48 hour) ( <i>D. magna</i> )<br>Algae: EL50 = 0.976 mg/l (72 hour) ( <i>Desmodesmus subspicatus</i> ) |
| <b>Long Term Toxicity</b> | Algae: EC10 = 0.586 mg/l (72 hour) ( <i>Desmodesmus subspicatus</i> )  |

##### tris(methylphenyl) phosphate (CAS No. 1330-78-5)

|                       |   |
|-----------------------|---|
| <b>Acute toxicity</b> | Fish LC50 = 0.06 mg/l (96 hour) ( <i>Rainbow trout</i> )<br>Fish LC50 = 44.8 mg/l (96 hour) ( <i>Fathead minnow</i> )<br>Aquatic invertebrates: EC50 = 146 µg/l (48 hour) ( <i>D. magna</i> )<br>Algae EL50 > 2500 µg/l (72 hour) / (96 hour) ( <i>S. capricornutum</i> ) |
| <b>Long Term</b>      | Aquatic invertebrates: NOEC = 0.011 – 0.019 mg/l (Survival) ( <i>G. pseudolimnaeus</i> )  |

### 12.2 Persistence and degradability

Not available

### 12.3 Bioaccumulative potential

Not available

### 12.4 Mobility in soil

No data

### 12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

### 12.6 Other adverse effects

None known.

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## 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

|   | <b>Land transport<br/>(ADR/RID)</b> | <b>Sea transport<br/>(IMDG)</b>                   | <b>Air transport<br/>(ICAO/IATA)</b> |
|---|-------------------------------------|---|--------------------------------------|
| <b>UN number</b>  |                                     |   |                                      |
| <b>Proper Shipping Name</b>   |                                     |   |                                      |
| <b>Transport hazard class(es)</b>   |                                     |   |                                      |
| <b>Packing Group</b>  |                                     |   |                                      |
| <b>Environmental hazards</b>  |                                     |   |                                      |
| <b>Special precautions for user</b>   |                                     |   |                                      |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> |                                     |   |                                      |
|   |                                     | <b>Not classified as dangerous for transport.</b> |                                      |
|   |                                     |   |                                      |
|   |                                     |   |                                      |
|   |                                     |   |                                      |
|   |                                     |   |                                      |
|   |                                     |   |                                      |

## 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

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

### Hazard Statement(s)

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H361: Suspected of damaging fertility or the unborn child.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.
- H411: Toxic to aquatic life with long lasting effects.

### GHS Classification

- Aquatic Chronic 3: Harmful to aquatic life with long lasting effects.

**Training advice:** None.

**Additional Information:** None.

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