



P2AO350HT Oil

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 Oil |
| 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 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 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

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 1330-78-5 | Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 |
| 1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl- ^ | 0 – 0.1 | ----- 94270-86-7 | Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 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 ³) | STEL (ppm) | STEL (mg/m ³) | 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 | Clear bright fluid |
| Colour. | Amber |
| Odour | Faint Petroleum-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) Inhalation: No data 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) Inhalation: LC50 > 11.1 mg/l (rat) (1 hour(s)) 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. LOAEL = 20 mg/kg (Developmental) 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)

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

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

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

| | Land transport (ADR/RID) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|--|-----------------------------|--|------------------------------|
| UN number | | | |
| Proper Shipping Name | | | |
| Transport hazard class(es) | | | |
| Packing Group | | Not classified as dangerous for transport. | |
| Environmental hazards | | | |
| Special precautions for user | | | |
| 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

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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