

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

Chemical Name

Not applicable.

Trade name

P2AO 350 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

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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

Directive 67/548/EEC & Directive 1999/45/EC R52/53

2.2 Label elements

Hazard Symbol None

Risk Phrases R52/53: Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Safety Phrases S29: Do not empty into drains.

S57: Use appropriate container to avoid environmental

contamination.

S61: Avoid release to the environment. Refer to special

instructions/Safety Data Sheets.

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

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
tris(methylphenyl) phosphate	0 – 1.0	1330-78-5	Not applicable^	Repr. 2 Aquatic Acute 1 Aquatic Chronic 1	Xn; R62 N; R50/53
1-H benzotriazole-1- methanamine, N,N- bis(2-ethylhexyl)-methyl-	0 – 0.1		Not applicable^	Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2	Xi; R38 R43 N;R51/53

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

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.

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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[^] Not yet subject to registration or is exempt.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment Avoid skin contact. Avoid contact with eyes.

and emergency procedures

6.2 Environmental precautions

Use appropriate container to avoid environmental

contamination.

6.3 Methods and material for containment and Contain ar

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

		LTEL (8 hr TWA	LTEL (8 hr	STEL	STEL	
SUBSTANCE.	CAS No.	ppm)	TWA mg/m³)	(ppm)	(mg/m³)	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.



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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

local authority for advice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Viscous liquid.

Colour. Amber, Clear.

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)

Evaporation rate

Flammability (solid, gas)

Explosive limit ranges

232 [Open cup]

Not applicable

Not applicable

Not applicable

Vapour pressure (Pascal)< 1</td>Vapour density (Air=1)> 1Density (g/ml)0.83Solubility (Water)Insoluble.Solubility (Other)Not availablePartition coefficient (n-Octanol/water)Not availableAuto ignition point (°C)>282

Decomposition temperature (°C)

Not available

Kinematic Viscosity (cSt) @ 40°C 68 (Listed in: Product specification)

Explosive properties

Oxidising properties

Not explosive.

Not oxidising.

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.

10.4Conditions to avoidNone10.5Incompatible materialsOxidizers

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

9.2

Acute toxicity

Irritation

Corrosivity

Not available.

Not available.

Not available.

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Sensitisation Not available.
Repeated dose toxicity Not available.
Carcinogenicity Not available.
Mutagenicity Not available.
Toxicity for reproduction 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)

Acute toxicity

-Ingestion No data
-Inhalation No data
-Dermal No data

-Irritation May cause irritation.

SensitisationSensitizerRepeated dose toxicityNo dataMutagenicityNo dataCarcinogencityNo dataToxicity for reproductionNo data

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

Acute toxicity

 $\label{eq:localization} $$ -\text{Ingestion} $$ LD50 > 20,000 \, \text{mg/kg (rat)} $$ -\text{Inhalation} $$ LC50 > 11.1 \, \text{mg/l (rat) (1 hour(s))} $$$

-Dermal LD50 3.7 g/kg (rabbit)

-Irritation Slightly irritant (Skin). Non-irritant to rabbit eyes.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity Oral: NOAEL = 1000 mg/kg (rat)

MutagenicityNegativeCarcinogencityNo dataToxicity for reproductionPositive

Developmental ToxicityLOAEL = 20 mg/kg (Developmental)

NOEL = 20 mg/kg (Maternal)

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 No data
Long Term Toxicity No data

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

Acute toxicity Fish LC50 = 0.06 mg/l (96 hour) (Rainbow trout)

Fish LC50 = 44.8 mg/l (96 hour) (Fathead minnow)

Aquatic invertebrates: EC50 = 146 µg/l (48 hour) (*D. magna*)

Algae EL50 > 2500 μ g/l (72 hour) / (96 hour) (S.

capricornutum)

Long Term Fish Sublethal Effects = 0.9 mg/l (4 week(s)) (O. mykiss)

Aquatic invertebrates: NOEC = 0.011 - 0.019 mg/l (Survival)

(G. pseudolimnaeus)

12.2Persistence and degradabilityNot available12.3Bioaccumulative potentialNot available12.4Mobility in soilNo 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.

Not classified as dangerous for transport.

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) Not classified as dangerous for transport.

UN number

Proper Shipping Name 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).: Aquatic Chronic 3

Label elements

GHS Product Identifier

Hazard pictogram(s)

Signal word(s)

None

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Hazard statement(s)

Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Avoid release to the environment.

Additional Information None

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

Risk Phrases and Safety Phrases:

- R38: Irritating to skin.
- R43: May cause sensitization by skin contact.
- R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62: Possible risk of impaired fertility.
- R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Training advice: None.

Additional Information: None.

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