



PMO300PP-82

SAFETY DATA SHEET

GB 13690-2009 and GB/T 16483-2008

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 PMO300PP-82
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 Perma Wick Company
3110 Perma Wick Drive
Columbus, IN, 47201

Telephone +1 (812) 376-0703
Fax +1 (812) 372-1410
E-Mail (competent person) sales@perma Wick.com

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

GB 13690-200 Aquatic Chronic 3

2.2 Label elements

Hazard Symbol 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
tris(methylphenyl) phosphate	0 – 1.0	1330-78-5	Repr. 2 Aquatic Acute 1 Aquatic Chronic 1
1-H benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-methyl-	0 – 0.1	94270-86-7	Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2

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.
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.

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 local authority for advice.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Grain like structure
Colour.	Grey to brown-yellow
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)	244 [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)	0.83 – 0.85
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)	85 - 92 (Listed in: Product specification)
Kinematic Viscosity (cSt) @ 100°C	13.5 – 15.5
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.
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



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-Ingestion	No data
-Inhalation	No data
-Dermal	No data
-Irritation	May cause irritation.

Sensitisation	Sensitizer
Repeated dose toxicity	No data
Mutagenicity	No data
Carcinogenicity	No data
Toxicity for reproduction	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)
-Irritation	Slightly irritant (Skin). Non-irritant to rabbit eyes.

Sensitisation

Repeated dose toxicity

Mutagenicity

Carcinogenicity

Toxicity for reproduction

Developmental Toxicity

It is not a skin sensitiser.
 Oral: NOAEL = 1000 mg/kg (rat)
 Negative
 No data
 Positive
 LOAEL = 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 µg/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*)

12.2 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.

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.



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SECTION 14: TRANSPORT INFORMATION

	<u>Land transport</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
UN number			
Proper Shipping Name		Not classified as dangerous for transport.	
Transport hazard class(es)			
Packing group			
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:

Inventory Status: China (IECSC)	All chemicals listed
Catalog of Hazardous Chemicals in China (2002):	None

SECTION 16: OTHER INFORMATION

Additional Information: None

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

Training advice: None.

Additional Information: None.

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