



PSL 1000 Oil

SAFETY DATA SHEET

GB 13690-2009 and GB/T 16483-2008

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Not applicable
Trade name	PSL 1000 Oil
CAS No.	Mixture

Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)	Bearing Lubricant
Uses advised against	None.

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

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)
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

GB 13690-2009

Repr. 2; STOT RE 2, Aquatic Chronic 3

Label elements

Hazard Symbol



WARNING

Signal Word(s)

Hazard statement(s)

Suspected of damaging fertility or the unborn child.
(Testicular effects, sperm concentration & motility)
May cause damage to organs through prolonged or repeated exposure: Liver
Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands and exposed skin after use.
Avoid release to the environment.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur obtain medical attention.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Other hazards

Not classified as PBT or vPvB.

Additional Information

None known.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	0.5 - 2.0	68411-46-1	May cause damage to organs through prolonged or repeated exposure: Liver Harmful to aquatic life with long lasting effects.
Tricresyl phosphate	1 - 2	1330-78-5	Suspected of damaging fertility or the unborn child. (Testicular effects, sperm concentration & motility) Very toxic to aquatic life with long lasting effects.

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

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Unlikely to be required but if necessary treat symptomatically.
Skin Contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur obtain medical attention.
Ingestion	Unlikely to be required but if necessary treat symptomatically.

Most important symptoms and effects, both acute and delayed None

Indication of the immediate medical attention and special treatment needed None

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

-Suitable Extinguishing Media	Extinguish with waterspray, dry chemical, sand or carbon dioxide.
-Unsuitable Extinguishing Media	None anticipated.

Special hazards arising from the substance or mixture This product may give rise to hazardous fumes in a fire.

Advice for fire-fighters A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear protective gloves/protective clothing/eye protection/face protection.
Environmental precautions	Use appropriate container to avoid environmental contamination.
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.
Reference to other sections	None
Additional Information	None



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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Wear protective gloves/protective clothing/eye protection/face protection.

Conditions for safe storage, including any incompatibilities

- Storage Temperature Store at room temperature.
- Incompatible materials Strong oxidising agents.

Specific end use(s) Bearing Lubricant

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		Korea	ACGIH® TLV®	Korea	ACGIH® TLV®	
None	----	----	----	----	----	

Recommended monitoring method None

Exposure controls

Appropriate engineering controls Not normally required.

Personal protection equipment

Eye/face protection

Safety spectacles.



Skin protection (Hand protection/ Other)

Not normally required. IF ON SKIN: Gently wash with plenty of soap and water.



Respiratory protection

Not normally required.



Thermal hazards

Not normally required.

Environmental Exposure Controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber.
Odour	Not available
Odour Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	Not available
Flash Point (°C)	286 [Cleveland Open cup]
Evaporation rate	Not available



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Flammability (solid, gas)	Not available
Explosive limit ranges	Not available
Vapour Pressure (Pascal)	Not available
Vapour Density (Air=1)	Not available
Density (g/ml)	0.96 (8.01 lb/gal)
Solubility (Water)	Negligible.
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Temperature (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt) @ 40°C	220
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	None
Incompatible materials	Oxidizers
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene (CAS No. 68411-46-1)

Acute toxicity	
-Ingestion	LD50 > 5000 mg/kg (rat)
-Inhalation	No data
-Dermal	LD50 > 2000 mg/kg (rabbit)
-Irritation	Non-irritant.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity (By analogy with similar materials):	Oral NOAEL = 25 mg/kg (rat) - May cause damage to organs through prolonged or repeated exposure: Liver
Mutagenicity	Negative
Carcinogenicity	No data
Reproductive toxicity (By analogy with similar materials):	Negative
Other information	None known

Tricresyl Phosphate (CAS No. 1330-78-5)

Acute toxicity	
-Ingestion	LD50 > 20000 mg/kg (rat)
-Inhalation	LC50 > 11.1 mg/l (4 hour(s)) (rat)
-Dermal	LD50 = 3700 mg/kg (rabbit)
-Irritation	Non-irritant.
Sensitisation	It is not a skin sensitiser.
Repeated dose toxicity	Oral NOAEL ≥ 1000 mg/kg (rat)
Mutagenicity	Negative
Carcinogenicity	No data
Reproductive toxicity	Oral NOAEL < 62.5 mg/kg (mouse) - Suspected of damaging fertility or the unborn child. (Testicular effects, sperm concentration & motility)
Other information	None known



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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Tricresyl Phosphate (CAS No. 1330-78-5)

Acute toxicity

Fish LC50 = 0.6 mg/l (96 hour) (Rainbow trout)
Aquatic invertebrates: EC50 = 0.146 mg/l (48 hour) (*D. magna*)

Long Term

Fish NOAEC = 0.01 mg/l (21 days) (*Jordanella floridae*)
Aquatic invertebrates: NOEC = 0.1 mg/l (21 days) (*D. magna*)

Persistence and degradability

Not available

Bioaccumulative potential

The product has low potential for bioaccumulation.

Mobility in soil

The product has low mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

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.

Additional Information

None known.

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

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

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

Date of preparation: 14 August 2014

Additional Information: None.

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