

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	Not applicable.
Chemical Name	Not applicable.
Trade name	PSL313 NP Series
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 Colombus, IN, 47201
Telephone	+1 (812) 376-0703
Fax	+1 (812) 372-1410
E-Mail (competent person)	sales@perma Wick.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)
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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

None known

PSL313NP Series

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
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	0 – 1.5	68411-46-1	Not applicable [^]	STOT RE 2 Aquatic Chronic 3	R52/53
tris(methylphenyl) phosphate	0 – 1.5	1330-78-5	Not applicable [^]	Repr. 2 Aquatic Acute 1 Aquatic Chronic 1	Xn; R62 N; R50/53

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

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

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.

PSL313NP Series

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.



PSL313NP Series

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	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)	230 - 270 [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)	1.01
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	60 (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

PSL313NP Series

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

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

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

It is not a skin sensitiser.

Repeated dose toxicity

No data

Mutagenicity

Negative

Carcinogenicity

No data

Toxicity for reproduction

NOAEL = 125 mg/kg (P/F1) (rat)

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

It is not a skin sensitiser.

Repeated dose toxicity

Oral: NOAEL = 1000 mg/kg (rat)

Mutagenicity

Negative

Carcinogenicity

No data

Toxicity for reproduction

Positive

Developmental Toxicity

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

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

Acute toxicity

Fish LC50 > 100 mg/l (96 hour) (*D. rerio*)
Aquatic invertebrates: EC50 > 100 mg/l (48 hour) / (24 hour(s)) (*D. magna*)
Algae EC50 > 100 mg/l (72 hour) (*D. subspicatus*) (Growth rate) and (Biomass)

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*)

PSL313NP Series

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

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

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	Not classified as dangerous for transport.
14.2 Sea transport (IMDG) UN number Proper Shipping Name Transport hazard class(es) Packing Group Marine Pollutant Special precautions for user	Not classified as dangerous for transport.
14.3 Air transport (ICAO/IATA) UN number Proper Shipping Name Transport hazard class(es) Packing Group Environmental hazards Special precautions for user	Not classified as dangerous for transport.
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

PSL313NP Series

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	None
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.

Additional Information None

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

Risk Phrases and Safety Phrases:

- R52/53: Harmful 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.

Training advice: None.

Additional Information: None.

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