



# PSL 1000 NP SAFETY DATA SHEET

In accordance with: Korea MoL Notice No. 2012-14

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Chemical Name	Not applicable
Trade name	PSL 1000 NP
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 Columbus, IN, 47201
Telephone	+1 (812) 376-0703
Fax	+1 (812) 372-1410
E-Mail (competent person)	sales@permawick.com
Local Entity	Kim Dong Jin FAR EAST COMMERCIAL CORP. Room# 410, Kolon Digital Tower Aston 212 Gasan Digital 1-Ro, Geumcheon-Gu Seoul, Korea 153-708
Telephone	+82-2-2113-2600
Fax	+82-2-2113-2605
Website	<a href="http://www.goldpony.net">http://www.goldpony.net</a>

### 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

GHS Classification	Repr. 2; STOT RE 2, Aquatic Chronic 3
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### 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.

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.

Precautionary statement(s)



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**Other hazards**  
**Additional Information**

Not classified as PBT or vPvB.  
None known.

## 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.
<b>Most important symptoms and effects, both acute and delayed</b>	None
<b>Indication of the immediate medical attention and special treatment needed</b>	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

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear protective gloves/protective clothing/eye protection/face protection.
<b>Environmental precautions</b>	Use appropriate container to avoid environmental contamination.



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**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

## 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** Granular (grain like)



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Colour	Amber to Gray
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
Flammability (solid, gas)	Not available
Explosive limit ranges	Not available
Vapour Pressure (Pascal)	Not available
Vapour Density (Air=1)	Not available
Density of oil (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 (Oil only)	220
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>Other information</b>	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	None
<b>Incompatible materials</b>	Oxidizers
<b>Hazardous Decomposition Product(s)</b>	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)



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-Irritation

Non-irritant.

**Sensitisation**

It is not a skin sensitiser.

**Repeated dose toxicity**

Oral NOAEL  $\geq$  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

## 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			
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

### Safety, health and environmental regulations/legislation specific for the substance or mixture:

National regulations (Korea):	Listed
Inventory Status: South Korea (KECI)	No.*
Industrial Safety and Health Act	No.
Hazardous Materials Act	No.
Waste Management Act	No.

\*A component of this mixture is not listed.



## PSL 1000 NP

### SECTION 16: OTHER INFORMATION

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

**Date of preparation:** 8 April 2014

**Additional Information:** None.

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