

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	PW284 Oil
CAS No.	Mixture
EINECS No.	Mixture

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

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

1.3 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
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	Not classified
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2.2 Label elements

Hazard Symbol	None
Risk Phrases	None
Safety Phrases	None

2.3 Other hazards

Not classified as PBT or vPvB.

2.4 Additional Information

None

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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
Distillates (petroleum), solvent-dewaxed heavy paraffinic*	60-100	64742-65-0	Not applicable^	Not classified.	Not classified.

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

* Contains less than 3% DMSO extractable as measured by IP 346 method. Notes H and L apply.

^ 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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment and emergency procedures	Not normally required
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	None
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
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8.2 Exposure controls

8.2.1	Appropriate engineering controls	Not normally required.
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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

Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber.
Odour	Fuel oil-like.
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)	220 [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 (g/ml)	0.88
Solubility (Water)	Negligible.
Solubility (Other)	Not available
Partition coefficient (n-Octanol/water)	Not available
Auto ignition point (°C)	Not available
Decomposition temperature (°C)	Not available
Kinematic Viscosity (cSt) @ 40°C	79
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.

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Mutagenicity
Toxicity for reproduction

Not available.
Not available.

11.1.3 Substances in preparations / mixtures

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS No. 64742-65-0)

Acute toxicity

-Ingestion	LD50 > 5000 mg/kg (rat)
-Inhalation	LC50 = 2.18 mg/l (4 hour(s)) (rat)
-Dermal	LD50 > 2000 mg/kg (rabbit)
-Irritation	Non-irritant.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

Oral NOAEL < 125 mg/kg (rat)
Inhalation NOAEL > 980 mg/m³
Dermal NOAEL = 1000 mg/kg (rabbit)

Mutagenicity

Negative

Carcinogenicity

Negative

11.2 Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity -

Substances in preparations / mixtures

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS No. 64742-65-0)

Acute toxicity

Fish NOEL $\geq$ 100 mg/l (96 hour) (*P. promelas*)
Aquatic invertebrates: NOEL $\geq$ 10,000 mg/l (96 hour) (*G. pulex*)

Long Term

Algae NOEL $\geq$ 100 mg/l (72 hour) (*P. subcapitata*)
Aquatic invertebrates: NOEL = 10 mg/l (21 days) (*D. magna*)
Microorganisms NOEL > 2.17 mg/l (4 days)

12.2 Persistence and degradability

There is evidence of degradation in soil and water.

12.3 Bioaccumulative potential

The substance has low potential for bioaccumulation.

12.4 Mobility in soil

The product has low mobility in soil.

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)

Not classified as dangerous for transport.

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

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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): Not classified

Label elements

GHS Product Identifier None
Hazard pictogram(s) None
Signal word(s) None
Hazard statement(s) None
Precautionary statement(s) None

Additional Information None

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

Risk Phrases and Safety Phrases: Not applicable

Training advice: None.

Additional Information: None.

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