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## 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	285
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

**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.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1	<b>Personal precautions, protective equipment and emergency procedures</b>	Not normally required
6.2	<b>Environmental precautions</b>	Use appropriate container to avoid environmental contamination.
6.3	<b>Methods and material for containment and cleaning up</b>	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	<b>Reference to other sections</b>	None
6.5	<b>Additional Information</b>	None

**SECTION 7: HANDLING AND STORAGE**

7.1	<b>Precautions for safe handling</b>	None
7.2	<b>Conditions for safe storage, including any incompatibilities</b>	
	-Storage Temperature	Store at room temperature.
	-Incompatible materials	Strong oxidising agents.
7.3	<b>Specific end use(s)</b>	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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	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**

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)	0.87 -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	102
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

**9.2 Other information**

Not available.

**SECTION 10: STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable.
<b>10.3 Possibility of hazardous reactions</b>	None anticipated.
<b>10.4 Conditions to avoid</b>	None
<b>10.5 Incompatible materials</b>	Oxidizers
<b>10.6 Hazardous Decomposition Product(s)</b>	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

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

<b>Acute toxicity</b>	
-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.
<b>Sensitisation</b>	It is not a skin sensitiser.
<b>Repeated dose toxicity</b>	Oral NOAEL < 125 mg/kg (rat) Inhalation NOAEL > 980 mg/m <sup>3</sup> Dermal NOAEL = 1000 mg/kg (rabbit)
<b>Mutagenicity</b>	Negative
<b>Carcinogenicity</b>	Negative
<b>11.2 Other information</b>	None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity -

#### Substances in preparations / mixtures

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

<b>Acute toxicity</b>	Fish NOEL $\geq$ 100 mg/l (96 hour) ( <i>P. promelas</i> ) Aquatic invertebrates: NOEL $\geq$ 10,000 mg/l (96 hour) ( <i>G. pulex</i> )
<b>Long Term</b>	Algae NOEL $\geq$ 100 mg/l (72 hour) ( <i>P. subcapitata</i> ) Aquatic invertebrates: NOEL = 10 mg/l (21 days) ( <i>D. magna</i> ) Microorganisms NOEL > 2.17 mg/l (4 days)
<b>12.2 Persistence and degradability</b>	There is evidence of degradation in soil and water.
<b>12.3 Bioaccumulative potential</b>	The substance has low potential for bioaccumulation.
<b>12.4 Mobility in soil</b>	The product has low mobility in soil.
<b>12.5 Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6 Other adverse effects</b>	None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
<b>13.2 Additional Information</b>	None known.

## SECTION 14: TRANSPORT INFORMATION

<b>14.1 Land transport (ADR/RID)</b>	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	
<b>14.2 Sea transport (IMDG)</b>	Not classified as dangerous for transport.
UN number	
Proper Shipping Name	

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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