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SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
 GHS Product Identifier Not applicable.
 Chemical Name Not applicable.
 Trade name 284
 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
 Columbus, IN, 47201 U.S.A.
 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) (812) 376-0703
 CHEMTREC 24 hr. +1 (703) 527-3887 (Collect call accepted)

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
 Regulation (EC) No. 1272/2008 (CLP). Not classified as dangerous for supply/use.
- 2.2 Label elements**
 Hazard Symbol None
 Signal word(s) None
 Hazard statement(s) None
 Precautionary statement(s) 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
 Regulation (EC) No. 1272/2008 (CLP).

Hazardous ingredient(s)	%W/W	EC No. and CAS#	According to Regulation (EC) No. 1272/2008 (CLP)
Distillates (petroleum), solvent-dewaxed heavy paraffinic * ^	60 - 100	265-169-7 64742-65-0	Not classified.

* Contains less than 3% DMSO extractable as measured by IP 346 method. Notes H and L apply. ^ Not yet subject to REACH registration.

3.3 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**

For full text of H/P 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 the 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 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) Synthetic Bearing Lubricant




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 known	-----	-----	-----	-----	-----	-----

Limit value type (country of origin)	SUBSTANCE.	CAS No.	Biological limit value	Note:
None known	-----	-----	-----	-----

- 8.1.2 Recommended monitoring method Not available
- 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)	213 [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
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, Nitrogen, phosphorous oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Not applicable

11.1.2 Mixtures - By analogy with similar materials:

Acute toxicity	Not to be expected.
Skin corrosion/irritation	Unlikely to cause skin irritation.
Serious eye damage/irritation	Unlikely to cause eye irritation.
Respiratory or skin sensitization	Not to be expected.
Germ cell mutagenicity	Not to be expected.
Carcinogenicity	Not to be expected.
Reproductive toxicity	Not to be expected.
STOT - single exposure	Not to be expected.
STOT - repeated exposure	Not to be expected.
Aspiration hazard	Not to be expected.

11.1.3 Substances in preparations / mixtures

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

Acute toxicity	LD50 > 5000 mg/kg (rat) LC50 = 2.18 mg/l (4 hour(s)) (rat) LD50 > 2000 mg/kg (rabbit)
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Respiratory or skin sensitization	It is not a skin sensitiser.
Germ cell mutagenicity	Negative
Carcinogenicity	Negative
Reproductive toxicity	Not to be expected.
STOT - single exposure	Not to be expected.
STOT - repeated exposure	Not to be expected.
Aspiration hazard	Not applicable

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	NOEL ≥ 100 mg/l (96 hour) (<i>P. promelas</i>) NOEL ≥ 10,000 mg/l (96 hour) (<i>G. pulex</i>)
Long Term	NOEL ≥ 100 mg/l (72 hour) (<i>P. subcapitata</i>) NOEL = 10 mg/l (21 days) (<i>D. magna</i>)

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

	<u>Land transport (ADR/RID)</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

- 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

The following sections contain revisions or new statements: 2, 3, 11, 16.

Hazard statement(s) and Precautionary statement(s):
- Not applicable

GHS Classification
- Not classified as dangerous for supply/use.

Training advice: None.

Additional Information: None.

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