


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	P2AO60
	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	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).	Asp. Tox. 1
2.2 Label elements	Hazard Symbol	
	Signal word(s)	DANGER
	Hazard statement(s)	H304: May be fatal if swallowed and enters airways.
	Precautionary statement(s)	P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405: Store locked up.
2.3 Other hazards		Not classified as PBT or vPvB.
2.4 Additional Information		May produce an allergic reaction in persons already sensitised.

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)
Dec-1-ene, homopolymer, hydrogenated	60 - 100	500-183-1 68037-01-4	Asp. Tox. 1; H304

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	Do not induce vomiting. Seek medical treatment.

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.
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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. Clear / Amber.
- Odour Mild petroleum
- 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) 160 – 230 (320 – 446) [Open cup]
- Evaporation rate Not applicable
- Flammability (solid, gas) Not applicable
- Explosive limit ranges Not applicable
- Vapour pressure (Pascal) Not available



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Vapour density (Air=1)	Not available
Density (g/ml)	0.82 – 0.84
Solubility (Water)	Insoluble.
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	5 – 20 at 40° C
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 - By analogy with similar materials:

Acute toxicity	Oral: >5000 mg/kg Dermal: >5000 mg/kg
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	May be fatal if swallowed and enters airways.

11.1.3 Substances in preparations / mixtures

Dec-1-ene, homopolymer, hydrogenated (CAS No. 68037-01-4)

Acute toxicity	Oral LD50 > 5000 mg/kg (rat) Inhalation LC50: LC50 > 5.2 mg/l (4 hour(s)) (rat) Dermal: LD50 > 3000 mg/kg (rabbit)
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. Oral NOAEL = 1000 mg/kg (rat)
Aspiration hazard	May be fatal if swallowed and enters airways.

11.2 Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Substances in preparations / mixtures

Dec-1-ene, homopolymer, hydrogenated (CAS No. 68037-01-4)

Short term	LL50 > 1000 mg/l (96 hour) (O. mykiss) EL50 > 1000 mg/l (48 hour) (D. magna) EL50 > 1000 mg/l (72 hour) (S. capricornutum)
Long Term	NOELR = 125 mg/l (D. magna) (21 days)
12.2 Persistence and degradability	Not readily biodegradable.
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

	<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.
German Water Classification / Wassergefährdungsklasse (Germany)	1
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):

- H304: May be fatal if swallowed and enters airways.

GHS Classification

- Asp. Tox. 1: May be fatal if swallowed and enters airways.

Training advice: None.

Additional Information: None.



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