



P2AO 40, 60, 90 Oil

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Not applicable
Trade name	P2AO 40, 60, 90 Oil
CAS No.	Mixture
EINECS No.	Mixture

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

Identified use(s)	Synthetic 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	(812) 376-0703
Fax	(812) 372-1410
E-Mail (competent person)	sales@permawick.com

Emergency telephone number

Emergency Phone No.	Monday - Friday, 8 am – 4:30 p.m. (EST) (812) 376-0703 CHEMTREC 24 hr. (800) 424-9300
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Asp. Tox. 1
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Label elements

Hazard Symbol



Hazard statement(s)

May be fatal if swallowed and enters airways.

Precautionary statement(s)

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

Store locked up.

Other hazards

Not classified as PBT or vPvB.

Additional Information

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Dec-1-ene, homopolymer, hydrogenated	60 - 100	68037-01-4	May be fatal if swallowed and enters airways.

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	Avoid inhalation of vapours. Move person to fresh air. Keep patient at rest and give oxygen if breathing difficult. If symptoms occur obtain medical attention.
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. Drink one glass of water. (or Milk.) Seek medical treatment.

Most important symptoms and effects, both acute and delayed None

Indication of the immediate medical attention and special treatment needed 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

Personal precautions, protective equipment and emergency procedures Avoid breathing dust/fume/gas/mist/vapours/spray.



P2AO 40, 60, 90 Oil

Environmental precautions	Use appropriate container to avoid environmental contamination.
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	Avoid breathing dust/fume/gas/mist/vapours/spray.
Conditions for safe storage, including any incompatibilities	
-Storage Temperature	Store at room temperature.
-Incompatible materials	Strong oxidising agents.
Specific end use(s)	Lubricating agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
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)	Gloves
	
Respiratory protection	Not normally required.
	
Thermal hazards	Not normally required.
Environmental Exposure Controls	Not normally required.



P2AO 40, 60, 90 Oil

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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 available
Flash Point (°C)	160 – 230 (320 – 446) [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)	0.82 – 0.84
Solubility (Water)	Not available
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	5 – 20 at 40° C
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	None
Incompatible materials	Oxidizers
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

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

Acute toxicity

-Ingestion	LD50 > 5000 mg/kg (rat)
-Inhalation	LC50 > 5.2 mg/l (4 hour(s)) (rat)
-Dermal	LD50 > 3000 mg/kg (rabbit)
-Irritation	Non-irritant.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

Oral NOAEL = 1000 mg/kg (rat)

Mutagenicity

Negative

Carcinogenicity

No data

Other information

IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.



P2AO 40, 60, 90 Oil

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

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

Acute toxicity

Fish LL50 > 1000 mg/l (96 hour) (*O. mykiss*)

Aquatic invertebrates: EL 50 > 1000 mg/l (48 hour) (*D. magna*)

Algae EL50 > 1000 mg/l (72 hour) (*S. capricornutum*)

Long Term

Aquatic invertebrates: NOELR = 125 mg/l (*D. magna*) (21 days)

Persistence and degradability

Not available

Bioaccumulative potential

Not available

Mobility in soil

Not available

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

	Land transport (U.S. DOT / ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
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

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

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories:

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----



P2AO 40, 60, 90 Oil

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

German Water Classification / Wassergefährdungsklasse (Germany)

1

SECTION 16: OTHER INFORMATION

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

Date of preparation: August 30, 2014

Additional Information: None.

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