



P2AO340-TGF

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Not applicable
Trade name	P2AO340-TGF
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
Only Representative	Experien Chemical Services (Europe) Limited PO Box 170 Thirsk YO 9AN UK *44 7791 573385 (UK 9am to 5pm)

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

Label elements

Hazard Symbol



Signal word

warning

Hazard statement(s)

Causes skin irritation. Causes serious eye irritation, may cause respiratory irritation

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.

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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.

Environmental precautions

Use appropriate container to avoid environmental contamination.

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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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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Appearance	Liquid
Colour	Tan, Smooth
Odour	Slight 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)	243°C [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)	1.16
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 (Base oil)	74.5 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	
Ingestion	Knowledge about health hazard is incomplete.
Inhalation	StabNo adverse effects due to inhalation.
Skin Contact	Causes skin irritation.
Eye Contact	Causes serious eye irritation
Symptoms related to the physical, chemical and toxicological characteristics	Oxidizers
Information on toxicological effects	Not available
Acute toxicity	Causes skin irritation
Dermal	Causes serious eye irritation
Serious ey damage/ey irritation	Knowledge about sensitization is incomplete
Respiratory sensitization	Knowledge about sensitization is incomplete
Skin sensitization	Knowledge about mutagenicity is incomplete
Germ cell mutagenicity	
Hazardous Decomposition Product(s)	Carbon monoxide, Carbon dioxide
<u>Dec-1-ene, homopolymer, hydrogenated (CAS No. 68037-01-4)</u>	
Acute toxicity	
-Ingestion	LD50 > 5000 mg/kg (rat)
-Inhalation	LC50 > 5.2 mg/l (4 hour(s)) (rat)

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-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.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

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

Acute toxicity	Fish LL50 > 1000 mg/l (96 hour) (<i>O. mykiss</i>) Aquatic invertebrates: EL 50 > 1000 mg/l (48 hour) (<i>D. magna</i>) Algae EL50 > 1000 mg/l (72 hour) (<i>S. capricornutum</i>)
Long Term	Aquatic invertebrates: NOELR = 125 mg/l (<i>D. magna</i>) (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

DOT (DEPARTMENT OF TRANSPORTATION)	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	
Land transport (ADR/RID)	
UN number	Not classified as dangerous for transport.
Proper Shipping Name	
Transport hazard class(es)	
Packing Group	
Marine Pollutant	
Special precautions for user	
Sea transport (IMDG)	
UN number	Not classified as dangerous for transport.
Proper Shipping Name	
Transport hazard class(es)	

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Packing Group
Environmental hazards
Special precautions for user

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

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not established

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	----	----

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

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

International Inventories

Countries(s) or Region	Inventory Name	On Inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances list (DSL)	Yes
Canada	Non-Domestic Substances list (NDSL)	No
China	Inventory of existing chemical substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and new Chemical Substances (ENCS)	No
Korea	Existing Chemicals List	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	No

SECTION 16: OTHER INFORMATION

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

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Date of preparation: April 16, 2013

Additional Information: None.

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