


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 | P2AO90C |
| 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. |
|--|--|

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 |

| | |
|---|-----------------|
| 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.



P2A090C

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