



# P2AO550-SG

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

|               |                |
|---------------|----------------|
| Chemical Name | Not applicable |
| Trade name    | P2AO550-SG     |
| 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<br>3110 Permawick Drive<br>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<br>PO Box 170<br>Thirsk YO 9AN UK<br>*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<br>CHEMTREC 24 hr. (800) 424-9300 |
|---------------------|--|

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

|                       |  |
|-----------------------|--|
| Physical Hazards      | None   |
| Health Hazards        | None   |
| Environmental Hazards | Hazardous to the aquatic environment, acute Category 3<br>Hazardous to the aquatic environment, Category 3 Long term hazard. |
| OSHA                  | Not classified   |

#### Label elements

|               |      |
|---------------|------|
| Hazard Symbol | None |
| Signal word   | None |

|                            |  |
|----------------------------|--|
| Hazard statement(s)        | Harmful to aquatic life. Harmful to aquatic life with long lasting effects.  |
| Precautionary statement(s) | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.<br>Do NOT induce vomiting.<br>Store locked up. |

# P2AO550-SG

**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)                           |
|--|----------|---------|---|
| PHENOL, ISOPROPYLATED, PHOSPHATE (3:1) | 90 - 100 |         | 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.

# P2A0550-SG

## SECTION 6: ACCIDENTAL RELEASE MEASURES

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| <b>Environmental precautions</b>   | Use appropriate container to avoid environmental contamination.  |
| <b>Methods and material for containment and cleaning up</b>                | Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery. |
| <b>Reference to other sections</b>   | None   |
| <b>Additional Information</b>  | None   |

## SECTION 7: HANDLING AND STORAGE

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| <b>Conditions for safe storage, including any incompatibilities</b> |   |
| -Storage Temperature  | Store at room temperature.                        |
| -Incompatible materials   | Strong oxidising agents.                          |
| <b>Specific end use(s)</b>  | Lubricating agent                                 |

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Occupational Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| SUBSTANCE.          | CAS No. | LTEL (8 hr TWA ppm) |             | STEL (ppm) |                     | Note: |
|---------------------|---------|---------------------|-------------|------------|---------------------|-------|
|                     |         | PEL (OSHA)          | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH)         |       |
| TRIPHENYL PHOSPHATE | ----    | 3 mg/m <sup>3</sup> | ----        | ----       | 3 mg/m <sup>3</sup> |       |

**Recommended monitoring method** None

### Exposure controls

This material does not have established exposure limits. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter

### US - California OELs: Skin designation

TRIPHENYL PHOSPHATE Can be absorbed through the skin.

### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal protection equipment

Eye/face protection

Safety spectacles.



# P2AO550-SG

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

|   |                            |
|---|----------------------------|
| Appearance                                  | Gel, translucent           |
| 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)                            | 276°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)                              | 0.86                       |
| 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) | 120 at 40° C               |
| Explosive properties                        | Not explosive.             |
| Oxidising properties                        | Not oxidising.             |
| <b>Other information</b>                    | Not available              |

## SECTION 10: STABILITY AND REACTIVITY

|   |                                 |
|---|---------------------------------|
| <b>Reactivity</b>                         | Stable under normal conditions. |
| <b>Chemical stability</b>                 | Stable.                         |
| <b>Possibility of hazardous reactions</b> | None anticipated.               |
| <b>Conditions to avoid</b>                | None                            |
| <b>Incompatible materials</b>             | Oxidizers                       |
| <b>Hazardous Decomposition Product(s)</b> | 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:

# P2AO550-SG

|                                   |                                    |
|-----------------------------------|------------------------------------|
| 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

PHENOL, ISOPROPYLATED, PHOSPHATE (3:1)

### Acute toxicity

#### Inhalation

LD50 > 7900mg/kg (rabbit)  
LD50 = 3500 (rat)  
LD50 > 30000 mg/kg (rat)

TRIPHENYL PHOSPHATE

LC50 = 50 mg/l (4 hour(s)) (rat)  
LD50 > 2000 mg/kg (rabbit)

Skin corrosion/irritation  
Serious eye damage/irritation  
Respiratory or skin sensitization  
Germ cell mutagenicity  
Carcinogenicity  
Reproductive toxicity  
STOT - single exposure  
STOT - repeated exposure  
Aspiration hazard

Non-irritant.  
Non-irritant.  
It is not a skin sensitiser.  
Negative  
Negative  
Not to be expected.  
Not to be expected.  
Not to be expected.  
Not applicable

## 11.2 Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

P2AO550-SG

#### Aquatic

##### Algae

39000 mg/L, 72 Hours estimated

##### Crustacea

110.0576 mg/L, 48 Hours estimated

##### Fish

5628.4839 mg/l, 96 hours estimated

### Components

PHENOL, ISOPROPYLATED, PHOSPHATE (3:1)

#### Aquatic

EC50 Daphnia 14 mg/L, 48 Hours

Crustacea

TRIPHENYL PHOSPHATE

#### Aquatic

Fish

LC50 Rainbow trout, donaldson trout 0.31 - 0.41 mg/l, 96 hours (Oncorhynchus mykiss)

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

### Long Term

Not available

### Persistence and degradability

Not available

### Bioaccumulative potential

Not available

### Mobility in soil

### Results of PBT and vPvB assessment

# P2AO550-SG

## 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)** Not classified as dangerous for transport.

UN number  
Proper Shipping Name  
Transport hazard class(es)  
Packing Group  
Marine Pollutant  
Special precautions for user

**Sea transport (IMDG)** Not classified as dangerous for transport.

UN number  
Proper Shipping Name  
Transport hazard class(es)  
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          | ----    | ----         | ----        |

# P2AO550-SG

## CERCLA Hazardous Substance List (40 CFR 302.4)

TRIPHENYL PHOSPHATE Listed.

### 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          | ----    | ----         | ----         |

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

TRIPHENYL PHOSPHATE (CAS Trade Secret)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

#### Safe Drinking Water Act

Not regulated. (SDWA)

#### US state regulations

California Proposition 65

This product can expose you to DIETHANOLAMINE, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California Proposition 65 - CRT: Listed date/Carcinogenic substance

DIETHANOLAMINE (CAS 111-42-2) Listed: June 22, 2012 US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

PHENOL, ISOPROPYLATED, PHOSPHATE (3:1)

TRIPHENYL PHOSPHATE

### International Inventories

| Countries(s) or Region | Inventory Name   | On Inventory (yes/no) |
|------------------------|--|-----------------------|
| Australia              | Australian Inventory of Chemical Substances (AICS)                     | No                    |
| Canada                 | Domestic Substances list (DSL)   | No                    |
| Canada                 | Non-Domestic Substances list (NDSL)                                    | No                    |
| China                  | Inventory of existing chemical substances in China (IECSC)             | No                    |
| 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  | No                    |
| New Zealand            | New Zealand Inventory  | No                    |
| Philippines            | Philippines Inventory of Chemicals and Chemical Substances (PICCS)     | No                    |

## SECTION 16: OTHER INFORMATION

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

Date of preparation: April 16, 2013

Additional Information: None.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Perma Wick gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded.

## **P2AO550-SG**

except to the extent that exclusion is prevented by law. Permawick accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.