

**WAECO DAPHNE HERMETIC OIL PS-F, WAECO DAPHNE  
HERMETIC OIL PR****SAFETY DATA SHEET**

according to the Model Work Health and Safety Regulations

ISSUE DATE: 4/4/2017

REVISION DATE: 12/04/2017

**VERSION: 1.1****1. SECTION 1: Identification : Product identifier and chemical identity****1.1. Product identifier**

**Trade name** Waeco Daphne Hermetic Oil PS-F, Waeco Daphne Hermetic Oil PR  
**SDS Number** 206

**1.2. Recommended uses and restrictions**

**Recommended use** Compressor oil for air conditioning systems  
**Restrictions on use** None known

**1.3. Supplier information**

<b>Supplier</b>	<b>Distributor</b>
DOMETIC WAECO INTERNATIONAL GMBH Hollefeldstraße 63 D-48282 Emsdetten Tel +49 (0) 2572 879-0 Fax +49 (0) 2572 879-300 Mail info@dometric-waeco.de	DOMETIC AUSTRALIA PTY. LTD. 1 John Duncan Court Varsity Lakes QLD 4227 Tel +61 7 55076000 Fax +61 7 55076001 Mail sales@dometric-waeco.com.au

**1.4. Emergency telephone number**

+49 (172) 3180-285 (Mo- Fr. 08:00 - 18:00 CET)

**2. SECTION 2: Hazards identification****2.1. Classification of the hazardous chemical**

Not classified

**2.2. Label elements**

No labelling applicable

**2.3. Other hazards**

**Other hazards not contributing to the classification** May cause an allergic skin reaction.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. SECTION 3: Composition/information on ingredients**

Chemical name	CAS- No	%	Classification according to the United Nations GHS (Rev. 4, 2011)	Notes
Tris(methylphenyl) phosphate	1330-78-5	1 - < 1,5	Repr. 2, H361	
7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-ylmethyl ester	2386-87-0	0,1 - < 1	Skin Sens. 1B, H317	

## 4. SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eyes contact	Rinse immediately with plenty of water. Get medical attention if symptoms occur.
Ingestion	Rinse mouth thoroughly. Get medical attention if symptoms occur.

### 4.2. Symptoms caused by exposure

Symptoms/effects	May cause an allergic skin reaction.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment	Treat symptomatically.
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## 5. SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Dry chemical, CO <sub>2</sub> , or water spray or regular foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	During fire, gases hazardous to health may be formed.
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### 5.3. Special protective equipment and precautions for fire fighters

Firefighting instructions	Move containers from fire area if it can be done without personal risk.
Hazchemcode	2[Z]
Protection during firefighting	Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.
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#### For emergency responders

Protective equipment	Wear recommended personal protective equipment.
Emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.

### 6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small spills: Take up liquid spill into absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.
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## 7. SECTION 7: Handling and storage, including how the chemical may be safely used

### 7.1. Precautions for safe handling

**Precautions for safe handling** Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Observe good industrial hygiene practices.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions** Store in a well-ventilated place. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the MSDS).

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters - exposure standards

No additional information available.

### 8.2. Monitoring

No additional information available.

### 8.3. Appropriate engineering controls

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) 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.

### 8.4. Personal protective equipment

**Materials for protective clothing** Wear suitable protective clothing.

**Individual protection measures, such as personal protective equipment (PPE)**

**Eye protection** Chemical goggles or face shield

**Skin protection**

**Hand protection**

Nitrile gloves are recommended

Material	Permeation	Thickness (mm)	Penetration	Comments
Nitrile rubber (NBR)		> 0.3 mm		EN 374
<b>Other protective measures</b>		Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
<b>Respiratory protection</b>		Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment		
<b>Thermal hazard protection</b>		Wear appropriate thermal protective clothing, when necessary.		
<b>Environmental exposure controls</b>		Inform appropriate managerial or supervisory personnel of all environmental releases.		

## 9. SECTION 9: Physical and chemical properties

**Appearance**

**Physical state**

Liquid.

**Colour**

light yellow.

**Odour**

Characteristic

**Odour threshold**

No data available.

**pH**

No data available.

**Relative evaporation rate (butylacetate=1)**

No data available.

**Melting point / Freezing point**

No data available.

**Boiling point**

No data available.

**Flash point**

200 - 244 °C

**Auto-ignition temperature**

No data available.

**Flammability (solid, gas)**

No data available.

**Vapour pressure**

No data available.

**Relative density**

No data available.

Density	1 - 1.01 g/cm <sup>3</sup>
Solubility	Insoluble.
Log Pow	No data available.
Viscosity, kinematic	9.5 mm <sup>2</sup> /s - 20.01 mm <sup>2</sup> /s @100°C 45 mm <sup>2</sup> /s - 100,1 mm <sup>2</sup> /s @40°C
Explosive properties	No data available.
Explosive limits	No data available.
Minimum ignition energy	No data available.
VOC content	Not applicable.
Fat solubility	No data available.

## 10. SECTION 10: Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport. The product is stable and non reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Incompatible materials	Strong oxidizing agent.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Carbon oxides (CO, CO <sub>2</sub> ). Phosphorus oxides.

## 11. SECTION 11: Toxicological information

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

### Waeco Daphne Hermetic Oil PS-F, Waeco Daphne Hermetic Oil PR

Viscosity, kinematic	9.948 mm <sup>2</sup> /s @100°C
Density	1.0036
Viscosity, kinematic	9.948 mm <sup>2</sup> /s @100°C

## 12. SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

### 12.1. Ecotoxicity

Acute aquatic toxicity	Harmful to aquatic life.
Chronic aquatic toxicity	Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity	

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Tris(methylphenyl) phosphate (1330-78-5)	Fish	Oncorhynchus mykiss (Rainbow trout)	LC50	0.21 - 0.32 mg/l	96 hours	
2,6-di-tert-butyl-p-cresol (128-37-0)	crustacea	Daphnia magna	EC50	0.48 mg/l	48 hours	
2,6-di-tert-butyl-p-cresol	Fish	Danio rerio	LC0	> 0.5 mg/l	96 hours	

(128-37-0)

## 12.2. Persistence and degradability

No additional information available.

## 12.3. Bioaccumulative potential

**Tris(methylphenyl) phosphate (1330-78-5)**

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**Log Kow** See section 12.1 on ecotoxicology

## 12.4. Mobility in soil

**Tris(methylphenyl) phosphate (1330-78-5)**

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**Log Kow** See section 12.1 on ecotoxicology

## 12.5. Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

**Waeco Daphne Hermetic Oil PS-F, Waeco Daphne Hermetic Oil PR**

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**GWPmix comment** No known effects from this product.

## 13. SECTION 13: Disposal considerations

**Regional legislation (waste)**

Dispose of in accordance with local regulations.

**Waste treatment methods**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with licensed collector's sorting instructions.

**Product/Packaging disposal recommendations**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

**Additional information**

Dispose in accordance with all applicable regulations.

## 14. SECTION 14: Transport information

### 14.1. UN number

Not regulated for transport

Not applicable.

### 14.3. Transport hazard class(es)

**ADG**

**Transport hazard class(es) (ADG)** Not applicable.

**IMDG**

**Transport hazard class(es) (IMDG)** Not applicable.

**IATA**

**Transport hazard class(es) (IATA)** Not applicable.

### 14.4. Packing group

**Packing group (ADG)** Not applicable.

**Packing group (IMDG)** Not applicable.

**Packing group (IATA)** Not applicable.

### 14.5. Environmental hazards

**Marine pollutant** No

### 14.6. Special precautions for user

**Specific storage requirement** No data available.

**Shock sensitivity** No data available.

#### 14.7. Additional information

**Other information** No supplementary information available.

##### Transport by road and rail

Not applicable.

##### Transport by sea

Not applicable.

##### Air transport

Not applicable.

#### 14.8. Hazchem or Emergency Action Code

**Hazchemcode** 2[Z]

### 15. SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable

#### 15.2. International agreements

Not applicable

### 16. SECTION 16: Any other relevant information

#### Indication of changes

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None.

#### Abbreviations and acronyms

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ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road.
BCF	Bioconcentration factor.
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
DNEL	Derived-No Effect Level.
IATA	International Air Transport Association.
IMDG	International Maritime Dangerous Goods.
LC50	Median lethal concentration.
EC50	Median effective concentration.
OECD	Organisation for Economic Co-operation and Development.
OEL	Occupational Exposure Limit.
PNEC	Predicted No-Effect Concentration.
PBT	Persistent Bioaccumulative Toxic.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.
SDS	Safety Data Sheet.
vPvB	Very Persistent and Very Bioaccumulative.

#### Classification

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Not classified

#### Full text of H-statements:

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Repr. 2	Reproductive toxicity, Category 2.
Skin Sens. 1B	Skin sensitisation, category 1B.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.

*The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.*