

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 03.04.2017
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VERSION: 1.1

1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name	Waeco Daphne Hermetic Oil PS-F, Waeco Daphne Hermetic Oil PR
Product code	No data available.
SDS Number	206
Product use	Professional use

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

Relevant identified uses	Compressor oil for air conditioning systems
Uses advised against	None known

1.3. Details of the supplier of the safety data sheet

Supplier	Distributor
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	SOUTH AFRICA DOMETIC (PTY) LTD. Regional Office South Africa & Sub-Saharan Africa 2 Avalon Road, West Lake View Ext 11, Modderfontein 1645 Tel +27 87 3530380 Mail info@dometric.co.za

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 substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Environmental hazards	Hazardous to the aquatic environment — H412 Chronic Hazard, Category 3	Harmful to aquatic life with long lasting effects.
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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms

Signal word None

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.

Supplemental hazard information

EUH208 Contains 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-ylmethyl ester(2386-87-0). May produce an allergic reaction
EUH205

Contains epoxy constituents. May produce an allergic reaction

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

3. SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
Tris(methylphenyl) phosphate	1330-78-5 215-548-8	1 - < 1,5	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
7- Oxabicyclo[4.1.0]heptane- 3-carboxylic acid, 7- oxabicyclo[4.1.0]hept-3- ylmethyl ester	2386-87-0 219-207-4	0,1 - < 1	Skin Sens. 1, H317	
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	0,1 - < 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

Full text of H-statements: see section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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. Most important symptoms and effects, both acute and delayed

Symptoms/effects

May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry chemical, CO₂, 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.

5.3. Advice for firefighters

Precautionary measures fire

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighting instructions	Move containers from fire area if it can be done without personal risk.
Other information	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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Other information
The product is immiscible with water and will spread on the water surface. Prevent entry into waterways, sewer, basements or confined areas.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

7. SECTION 7: Handling and storage

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.
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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).
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7.3. Specific end use(s)

No additional information available.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limits.

DNEL: Derived no effect level

No data available.

PNEC: Predicted no effect concentration

No data available.

8.2. Exposure 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		
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)	Comments
Nitrile rubber (NBR)		> 0.3 mm	EN 374
Other protective measures	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.		
Respiratory protection	Not normally needed. In case of insufficient ventilation, wear suitable respiratory equipment		
Thermal hazard protection	Wear appropriate thermal protective clothing, when necessary.		
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.		

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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	No data available.
Freezing point	No data available.
Boiling point	No data available.
Flash point	200 - 244 °C
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Flammability (solid, gas)	No data available.
Vapour pressure	No data available.
Relative vapour density at 20 °C	No data available.
Relative density	No data available.
Density	1 - 1.01 g/cm ³
Solubility	Insoluble.
Log Pow	No data available.
Viscosity, kinematic	9.5 mm ² /s - 20.01 mm ² /s @100°C 45 mm ² /s - 100.1 mm ² /s @40°C
Viscosity, dynamic	No data available.
Explosive properties	No data available.
Oxidising properties	No data available.
Explosive limits	No data available.

9.2. Other information

VOC (EU)	Not applicable.
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10. SECTION 10: Stability and reactivity

- 10.1. Reactivity** The product is stable and non reactive under normal conditions of use, storage and transport.
- 10.2. Chemical stability** Stable under normal conditions of use.
- 10.3. Possibility of hazardous reactions** No dangerous reactions known under normal conditions of use.
- 10.4. Conditions to avoid** No additional information available.
- 10.5. Incompatible materials** Strong oxidizing agent.
- 10.6. Hazardous decomposition products** Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Carbon oxides (CO, CO₂), Phosphorus oxides.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	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

12. SECTION 12: Ecological information

12.1. Toxicity

Ecology - general 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 (128-37-0)	Fish	Danio rerio	LC0	> 0.5 mg/l	96 hours	

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

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

Log Kow	5.11
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12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

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

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6. Other adverse effects

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.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.
European List of Waste (LoW) code	
13 02 08*	other engine, gear and lubricating oils
15 01 10*	packaging containing residues of or contaminated by dangerous substances

14. SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	Not applicable.
UN-No. (IMDG)	Not applicable.
UN-No. (IATA)	Not applicable.
UN-No. (ADN)	Not applicable.
UN-No. (RID)	Not applicable.

14.2. UN proper shipping name

Proper Shipping Name (ADR)	Not applicable.
Proper Shipping Name (IMDG)	Not applicable.
Proper Shipping Name (IATA)	Not applicable.
Proper Shipping Name (ADN)	Not applicable.
Proper Shipping Name (RID)	Not applicable.

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) Not applicable.

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

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

ADN	
Transport hazard class(es) (ADN)	Not applicable.
RID	
Transport hazard class(es) (RID)	Not applicable.
14.4. Packing group	
Packing group (ADR)	Not applicable.
Packing group (IMDG)	Not applicable.
Packing group (IATA)	Not applicable.
Packing group (ADN)	Not applicable.
Packing group (RID)	Not applicable.
14.5. Environmental hazards	
Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available.
14.6. Special precautions for user	
Overland transport	
Not applicable.	
Transport by sea	
Not applicable.	
Air transport	
Not applicable.	
Inland waterway transport	
Not applicable.	
Rail transport	
Not applicable.	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Not applicable.	
15. SECTION 15: Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
EU-Regulations	
Contains no REACH substances with Annex XVII restrictions	
Contains no substance on the REACH candidate list	
Contains no REACH Annex XIV substances	
VOC (EU)	Not applicable.
National regulations	
No additional information available.	
15.2. Chemical safety assessment	
No additional information available.	
16. SECTION 16: Other information	
Indication of changes	

None.

Abbreviations and acronyms

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.
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
IATA	International Air Transport Association.
IMDG	International Maritime Dangerous Goods.
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.
DNEL	Derived-No Effect Level.
PNEC	Predicted No-Effect Concentration.
OEL	Occupational Exposure Limit.

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006..

Training advice Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1.
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1.
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3.
Repr. 2	Reproductive toxicity, Category 2.
Skin Sens. 1	Skin sensitisation, Category 1.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
EUH208	Contains . May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Aquatic Chronic 3	H412	Calculation method
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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.