WAECO DAPHNE HERMETIC OIL PS-F / WAECO DAPHNE HERMETIC OIL PR

SAFETY DATA SHEET

according to the Hazardous Substances and New Organisms Act (1996)

ISSUE DATE: 4/6/2017
REVISION DATE: 4/13/2017

VERSION: 1.1

1. SECTION 1: Identificaction of the hazardous chemical and of the supplier

1.1. Product identifier

Trade name	Waeco Daphne Hermetic Oil PS-F / Waeco Daphne Hermetic Oil PR
Product form	Mixtures
SDS Number	206

1.2. Other means of identification

No additional information available.

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

Recommended use	Compressor oil for air conditioning systems

1.4 Supplier's details

Supplier
DOMETIC NEW ZEALAND LTD.
PO Box 12011
Penrose
Auckland 1642
Tel +64 9 622 1490
Fax +64 9 622 1573
Mail customerservices@dometic.co.nz

Emergency telephone number
Emergency 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

FLLQ-NC	Flam. Liq. Not classified
SESK-1	6.5B: Skin Sens. 1
TORE-2	6.8B: Repr. 2
LACT-0	6.8C: Lact.
AEAH-3	9.1D: Aquatic Acute 3
AECH-3	9.1C: Aquatic Chronic 3

2.2. Label elements

Hazard pictograms

GHS07 GHS08

Signal word	Warning
Contains	Tris(methylphenyl) phosphate; 2,6-di-tert-butyl-p-cresol; 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-ylmethyl ester
Hazard statements	H317 - May cause an allergic skin reaction H361 - Suspected of damaging fertility or the unborn child H362 - May cause harm to breast-fed children H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P263 - Avoid contact during pregnancy/while nursing
P273 - Avoid release to the environment.
P281 - Use personal protective equipment as required
P308+P313 - IF exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards not contributing to the classification

Other hazards not contributing to the classification

The mixture contains no substance that fulfils the criteria of a PBT- or vPvB substance.

3. SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable.

3.2. Mixtures

Chemical name	CAS- No	%	Classification according to the United Nations GHS (Rev. 4, 2011)
Polyethylene-Polypropylene Glycol Dimethyl Ether	61419-46-3	70 - < 100	Not classified
Sorbitan Sesquioleate	8007-43-0	1 - < 2	6.3B: Skin Irrit. 3, H316
Tris(methylphenyl) phosphate	1330-78-5	1 - < 1.5	6.1E: Acute Tox. 5 (Oral), H303 6.1D: Acute Tox. 4 (Dermal), H312 6.3B: Skin Irrit. 3, H316 6.4A: Eye Irrit. 2A, H319 6.8B: Repr. 2, H361 6.9A: STOT SE 1, H370 9.1A: Aquatic Acute 1, H400 9.1A: 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	0.1 - < 1	6.1E: Acute Tox. 5 (Oral), H303 6.3B: Skin Irrit. 3, H316 6.4A: Eye Irrit. 2A, H319 6.5B: Skin Sens. 1, H317 9.1C: Aquatic Chronic 3, H412

Chemical name	CAS- No	%	Classification according to the United Nations GHS (Rev. 4, 2011)
2,6-di-tert-butyl-p-cresol	128-37-0	0.1 - < 1	Ecotoxicity to terrestrial vertebrates C, H433 6.1D: Acute Tox. 4 (Inhalation:gas), H332 6.5B: Skin Sens. 1, H317 6.8C: Lact., H362 6.9B: STOT RE 2, H373 9.1D: Aquatic Acute 2, H401 9.1D: Aquatic Chronic 4, H413

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.

Skin contact Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eyes contact Rinse immediately with plenty of water. If eye irritation persists: Get medical advice/attention. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact May cause an allergic skin reaction. Suspected of damaging fertility.

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

Other medical advice or treatment Treat symptomatically.

5. SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Carbon dioxide. 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

Reactivity The product is non-reactive under normal conditions of use, storage and transport

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

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available.

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.

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. 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.

7. SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing mist, vapours. Wear personal protective equipment. Protect material from direct sunlight. Observe good industrial hygiene practices.

Hygiene measures Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep cool. Protect from sunlight. Store in a dry place. Store in a closed container.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

New Zealand

Regulation	Substance	Type	Value
	2,6-di-tert-butyl-p-cresol (128-37-0)	TWA	10 mg/m³ inhalable fraction

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

Materials for protective clothing Wear suitable protective clothing.

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

Eye protection Safety glasses with side shields

Skin protection

Hand protection Wear protective gloves.

Material	Permeation	Thickness (mm)	Penetration	Comments
Nitrile rubber (NBR)		> 0.3 mm		EN 374

Other protective measures No additional information available.

Respiratory protection 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

Physical state Liquid

Colour Light yellow

Odour Characteristic

Odour threshold No data available.

pH No data available.

Evaporation rate 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/cm³

Solubility Insoluble.

Log Pow No data available.

Viscosity, kinematic 9.5 mm²/s - 20.01 mm²/s @100°C
45 mm²/s - 100.1 mm²/s @40°C

Explosive properties No data available.

Explosive limits No data available.

Minimum ignition energy No data available.

10. SECTION 10: Stability and reactivity

Reactivity The product is non-reactive under normal conditions of use, storage and transport.The product is non-reactive under normal conditions of use, storage and transport

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions No dangerous reactions known under normal conditions of use.

Conditions to avoid Heat. Sparks. Open flame.

Incompatible materials Strong oxidizing agents. Strong bases.

Hazardous decomposition products Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

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	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.
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.
Acute aquatic toxicity	Harmful to aquatic life.
Chronic aquatic toxicity	Harmful to aquatic life with long lasting effects.
Soil toxicity	Not classified
Terrestrial vertebrate toxicity	Not classified
Terrestrial invertebrate toxicity	Not classified

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	

12.2. Persistence and degradability

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-ylmethyl ester (2386-87-0)

Not rapidly degradable

12.3. Bioaccumulative potential

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

Log Kow	5.11

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Ozone	Not classified
GWPmix comment	No known effects from this product.
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

Waste treatment methods	Do not allow this material to drain into sewers/water supplies. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Ecology - waste materials	Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground.
Additional information	Do not re-use empty containers. Dispose in accordance with all applicable regulations.

14. SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG)	Not applicable.
Proper Shipping Name (IMDG)	Not applicable.
Proper Shipping Name (IATA)	Not applicable.

14.3. Transport hazard class(es)

UN RTDG

Transport hazard class(es) (UN RTDG)	Not applicable.

IMDG

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

IATA

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

14.4. Packing group

Packing group (UN RTDG)	Not applicable.
Packing group (IMDG)	Not applicable.
Packing group (IATA)	Not applicable.

14.5. Environmental hazards

Marine pollutant	No
Other information	No supplementary information available.

UN RTDG

No data available.

IMDG

No data available.

IATA

No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

14.8. Hazchem or Emergency Action Code

Hazchemcode	2[Z]

15. SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

New Zealand CWC Prohibition Act: Listed substance

Not listed.

New Zealand Inventory of Chemicals (NZIoC): Registration status

2,6-Di-tert-butyl-4-methylphenol (128-37-0) - HSNO Approved

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

7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, - HSNO Approved
7-oxabicyclo[4.1.0]hept-3-ylmethyl ester (2386-87-0)

Sorbitan Sesquioleate (8007-43-0) - HSNO Approved

15.2. Chemical safety assessment

No additional information available.

16. SECTION 16: Other information

SDS Major/Minor	None
Issue date	4/6/2017
Data sources	Workplace Exposure Standards and Biological Exposure Indices; June 2016, 8th EDITION. EPA HSNO chemical classification information database (CCID), for specific chemicals.
Training advice	Normal use of this product shall imply use in accordance with the instructions on the packaging.

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.
BCF	Bioconcentration factor.
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters..
EC50	Median effective concentration.
HSNO	Hazardous Substances and New Organisms (Act and Regulation) .
IMDG	International Maritime Dangerous Goods.
IATA	International Air Transport Association.
NOEC	No-Observed Effect Concentration.
OECD	Organisation for Economic Co-operation and Development.
PBT	Persistent Bioaccumulative Toxic.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.
SDS	Safety Data Sheet.
vPvB	Very Persistent and Very Bioaccumulative.
WES	Workplace Exposure Standard – The airborne concentration of a biological or chemical agent to which a worker may be exposed.

Full text of H-statements

6.1D: Acute Tox. 4 (Dermal)	6.1D: Acute toxicity (dermal), Category 4
6.1E: Acute Tox. 5 (Oral)	6.1E: Acute toxicity (oral), Category 5
6.3B: Skin Irrit. 3	6.3B: Skin corrosion/irritation, Category 3
6.4A: Eye Irrit. 2A	6.4A: Serious eye damage/eye irritation, Category 2A
6.5B: Skin Sens. 1	6.5B: Skin sensitisation, Category 1

6.8B: Repr. 2	6.8B: Reproductive toxicity, Category 2
6.8C: Lact.	6.8C: Reproductive toxicity, Additional category, Effects on or via lactation
6.9A: STOT SE 1	6.9A: Specific target organ toxicity — single exposure, Category 1
9.1A: Aquatic Acute 1	9.1A: Hazardous to the aquatic environment — Acute Hazard, Category 1
9.1A: Aquatic Chronic 1	9.1A: Hazardous to the aquatic environment — Chronic Hazard, Category 1
9.1C: Aquatic Chronic 3	9.1C: Hazardous to the aquatic environment — Chronic Hazard, Category 3
9.1D: Aquatic Acute 3	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 3
Flam. Liq. Not classified	Flammable liquids Not classified
STOT SE Not classified	Specific target organ toxicity (single exposure) Not classified
H303	May be harmful if swallowed
H312	Harmful in contact with skin
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H362	May cause harm to breast-fed children
H370	Causes damage to organs
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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.