

**160P****Safety Data Sheet**

according to Regulation (EU) 2020/878

Date of issue: 11.07.2024

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Version/Replaced version: 2.0/1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Product name : 160P
UFI : 8QE0-A040-V00V-WNGF

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture : Refrigerating machine oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet**Manufacturer/Supplier**

Danfoss Commercial Compressors S.A

Rue du Pou du Ciel

01600 Reyrieux - France

T +33 (0)4 74 00 28 29

contact.cc@danfoss.com

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Germany	Giftinformationszentrum (GIZ-Nord) Universitätsmedizin Göttingen - Georg-August-Universität	Robert-Koch Straße 40 37075 Göttingen	+49 551 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]**

Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008 [CLP]**

Signal word (CLP) : -
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP) : P273 - Avoid release to the environment.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

The mixture does not contain substance(s) classified as PBT or vPvB in concentrations above 0.1%.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified (< 3 % DMSO extract)	(CAS No) 64742-52-5 (EC No) 265-155-0 (Index No) 649-465-00-7 (REACH No) 01-2119467170-45-xxxx	50 – 75	Not classified
Distillates (petroleum), hydrotreated light naphthenic; Baseoil - unspecified (< 3 % DMSO extract)	(CAS No) 64742-53-6 (EC No) 265-156-6 (Index No) 649-466-00-2 (REACH No) 01-2119480375-34-xxxx	25 – 50	Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends	(CAS No) 94094-93-6 (EC No) 302-196-6	≤ 5	Aquatic Chronic 3, H412
Tris(methylphenyl)phosphate	(CAS No) 1330-78-5 (EC No) 809-930-9 (REACH No) 01-2119531335-46-xxxx	< 2.5	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Get medical advice/attention if you feel unwell. If possible show them this sheet. Failing this, show them the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Drink water as a precaution. Do NOT induce vomiting.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing agents that suit the environment. Carbon dioxide. Extinguishing powder. For a significant fire: Alcohol resistant foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic gases and vapours. Carbon dioxide. Carbon monoxide. Phosphorus oxides.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Provide adequate ventilation. Do not breathe vapours. Avoid contact with skin and eyes. Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Keep in suitable, closed containers for disposal. Dispose of in accordance with relevant local regulations.

6.4. Reference to other sections

Exposure controls and personal protection, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing vapours, spray. Avoid contact with skin and eyes. Wear personal protective equipment.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from heat and direct sunlight.

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified (64742-52-5)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal : 0.97 mg/kg bodyweight/day

Long-term - systemic effects, inhalation : 2.73 mg/m³

Long-term - local effects, inhalation : 5.58 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral : 0.74 mg/kg bodyweight/day

PNEC (Oral)

PNEC oral (secondary poisoning) : 9.33 mg/kg food

Distillates (petroleum), hydrotreated light naphthenic; Baseoil - unspecified (64742-53-6)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal : 0.97 mg/kg bodyweight/day

Long-term - systemic effects, inhalation : 2.73 mg/m³

Long-term - local effects, inhalation : 5.58 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, oral : 0.74 mg/kg bodyweight/day

PNEC (Oral)

PNEC oral (secondary poisoning) : 9.33 mg/kg food

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize vapour concentrations.

Hand protection : Wear suitable gloves (EN 374 or equivalent). Nitrile rubber. > 0.35 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection : Chemical goggles or safety glasses (EN 166).

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Respiratory protection with filter type P (EN 14387).

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid.

Colour : Yellow

Odour : No data available

Melting point/freezing point : No data available

Boiling point or initial boiling point and boiling range : No data available

Flammability : No data available

Lower and upper explosion limit : No data available

Flash point : > 165 °C (Cleveland Open Cup)

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : No data available

Kinematic viscosity : 31.5 mm²/s (40 °C); 4.6 mm²/s (100 °C)

Solubility : Water: practically insoluble

Partition coefficient n-octanol/water (log value) : Not applicable

Vapour pressure : < 0.01 kPa

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Density and/or relative density	: < 1 g/cm ³ (15 °C)
Relative vapour density	: No data available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties	: None
Oxidising properties	: None

9.2.2. Other safety characteristics

Pour point	: -42 °C
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

High temperature. Sources of ignition.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. In case of fire: Toxic gases and vapours. Carbon dioxide. Carbon monoxide. Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	: Not classified
	Based on available data, the classification criteria are not met

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified (64742-52-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5.53 mg/l/4 h

Distillates (petroleum), hydrotreated light naphthenic; Baseoil - unspecified (64742-53-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5.53 mg/l/4 h

Tris(methylphenyl)phosphate (1330-78-5)	
LD50 oral rat	> 20000 mg/kg
LD50 dermal rabbit	3700 mg/kg
LC50 inhalation rat	> 5.2 mg/l/4 h

Skin corrosion/irritation	: Not classified
	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: Not classified
	Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
	Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
	Based on available data, the classification criteria are not met

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Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disruption for human health : No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Destillate (Erdöl), mit Wasserstoff behandelte schwere naphthenhaltige; Grundöl - nicht spezifiziert (64742-52-5)	
LL50 fish	> 100 mg/l 96 h, Pimephales promelas
EL50 daphnia	> 10000 mg/l 48 h, Daphnia magna
NOEL fish	≥ 100 mg/l 96 h, Pimephales promelas
NOEL daphnia	10 mg/l 21 d, Daphnia magna
NOEL algae	≥ 100 mg/l 72 h, Raphidocelis subcapitata

Destillate (Erdöl), mit Wasserstoff behandelte leichte naphthenhaltige; Grundöl - nicht spezifiziert (64742-53-6)	
LL50 fish	> 100 mg/l 96 h, Pimephales promelas
EL50 daphnia	> 10000 mg/l 48 h, Daphnia magna
NOEL fish	≥ 100 mg/l 96 h, Pimephales promelas
NOEL daphnia	10 mg/l 21 d, Daphnia magna
NOEL algae	≥ 100 mg/l 72 h, Raphidocelis subcapitata

Tris(methylphenyl)phosphate (1330-78-5)	
LC50 fish	0.6 mg/l 96 h, Oncorhynchus mykiss
EC50 daphnia	0.146 mg/l 48 h, Daphnia magna
EL50 algae	> 2.5 mg/l 72 h, Raphidocelis subcapitata
NOEC fish	0.01 mg/l 28 d, Jordanella floridae
NOEC daphnia	0.1 mg/l 21 d, Daphnia magna
NOEC algae	2.5 mg/l 72 h, Raphidocelis subcapitata

12.2. Persistence and degradability

Tris(methylphenyl)phosphate (1330-78-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	80 %, 28 d (OECD 301 C)

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Endocrine disrupting properties

Endocrine disruption for the environment : No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods : Do not empty into drains.
Waste disposal recommendations : Empty the packaging completely prior to disposal.
European List of Waste (LoW) code : 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils
15 01 10* - packaging containing residues of or contaminated by hazardous substances

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Waste code : The valid EWC waste code numbers are source related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

UN-No. (ADR) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : 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

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

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : 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

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Authorisation List (Anhang XIV)

Contains no substance(s) listed on REACH Annex XIV (list of substances subject to authorisation).

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List for Authorisation (substances of very high concern).

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation (EU) 649/2012 concerning the export and import of hazardous chemicals).

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation (EU) 2019/1021 on persistent organic pollutants).

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Ozone Regulation

Contains no substance(s) listed on the Ozone Depletion list (Regulation (EU) 2024/590 on substances that deplete the ozone layer).

Explosives Precursors Regulation

Contains no substance(s) listed on the Explosives Precursors list (Regulation (EU) 2019/1148 on the marketing and use of explosives precursors).

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

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.

Changes compared to the previous version : Section 3.2
Section 9.1
Section 15.1.1

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50 % of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50 % of a test population (Median Lethal Dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC/L	No Observed Adverse Effect Concentration/Level
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-phrases:

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
Asp. Tox. 1	Aspiration hazard, Category 1
Repr. 2	Reproductive toxicity, Category 2
H304	May be fatal if swallowed and enters airways.
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.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.