



Safety Data Sheet in accordance with HSNO

Printing date 31.10.2022

Version number 16 (replaces version 15)

Revision: 31.10.2022

SECTION 1: Identification of the substance or mixture and of the supplier

- **Product identifier**
- **Trade name:** Lubricating Oil ISO VG 220
- **Article number:** 542690-80, 542690-81
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Lubricating oil
- **Details of the supplier of the safety data sheet**
- **Supplier:**
Alfa Laval Technologies AB
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Sweden
+46 46 36 65 00
info.se@alfalaval.com

New Zealand Supplier:
Alfa Laval New Zealand Ltd
PO Box 20424, Te Rapa - Hamilton, - New Zealand
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<http://www.alfalaval.co.nz> - newzealand.info@alfalaval.com
- **Further information obtainable from:**
For further questions regarding the safety data sheet, please contact your local Alfa Laval Sales Company which you find at www.alfalaval.com or in section 16 "Other Information" in the end of the safety data sheet
- **Emergency telephone number:**
New Zealand:
Emergency service number: 111
National poisons centre phone: 0800 764 766.

SECTION 2: Hazards identification

- **Classification of the substance or mixture**
Aquatic Acute 3 H402 Harmful to aquatic life.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** The product is not, nor contains, a substance that is, PBT.

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- **vPvB:** The product is not, nor contains a substance that is, vPvB.

SECTION 3: Composition/Information on ingredients

- **Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	0.25-<1%
EINECS: 204-881-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
EC number: 701-177-3	Oleic acid derivative	0.1-<1%
	Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H332; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **Description of first aid measures**

- **General information:** Wash contaminated clothing before reuse.
- **After inhalation:** Supply fresh air; consult doctor if symptoms persist.
- **After skin contact:**
Wash with water and soap.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water and consult a doctor.
- **After swallowing:**
Rinse the mouth with water.
Do NOT induce vomiting.
May cause aspiration when swallowing.
Contact a doctor/physician.
- **Most important symptoms and effects, both acute and delayed**
High pressure injection under skin: local necrosis.
- **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

SECTION 5: Fire fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Carbon dioxide

Use fire extinguishing methods suitable to surrounding conditions.

- **For safety reasons unsuitable extinguishing agents:** Not applicable.

- **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Hydrocarbons

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- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
Do not breathe vapour.
- **Environmental precautions:**
Avoid release to the environment.
Do not allow to enter sewers/ surface or ground water.
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Send for recovery or disposal in suitable receptacles.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **Precautions for safe handling**
Avoid the formation of oil haze.
The usual precautionary measures are to be adhered to when handling chemicals.
See Section 8 for information on personal protection equipment.
When using do not eat, drink or smoke.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a well-ventilated place. Keep container tightly closed.
Store in a dry place.
- **Information about storage in one common storage facility:**
Store away from oxidising agents.
Store away from reducing agents.
- **Further information about storage conditions:** Protect from humidity and water.
- **Specific end use(s)**
Lubricating oil
Professional use only.

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SECTION 8: Exposure controls/personal protection

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

WES (New Zealand)	Long-term value: 10 mg/m ³ dsen
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· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Use only in well-ventilated areas.

Wash hands before breaks and at the end of work.

· **Respiratory protection:** Not necessary if room is well-ventilated.

· **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR
polymer laminate

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Eye/face protection** Wear eye/face protection.

· **Body protection:** Working clothes

· **Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Colourless

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

250 °C

· **Decomposition temperature:**

Not determined.

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· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 40 °C	220 mm ² /s
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	< 0.01 kPa
· Density and/or relative density	
· Density at 20 °C:	0.86 g/cm ³ (DIN EN ISO 12185)
· Relative density	Not determined.
· Vapour density	Not determined.
· Other information	
· Appearance:	Clear
· Form:	Liquid
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Drip point:	
· Oxidising properties	Not applicable.
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **Reactivity** The material is stable under recommended storage and handling conditions.
- **Chemical stability**
Stable under normal temperature conditions and under recommended usage and storage.

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- **Thermal decomposition / conditions to be avoided:**
To avoid thermal decomposition do not overheat.
Formation of toxic gases is possible during heating or in case of fire.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** High temperature
- **Incompatible materials:** Reacts with acids, alkalis and oxidising agents.
- **Hazardous decomposition products:**
Poisonous gases/vapours
No further information, refer to section 5.

SECTION 11: Toxicological information

- **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	LD50	>2,930 mg/kg (Rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (Rat) (OECD 402)

Oleic acid derivative

Oral	LD50	>5,000 mg/kg (Rat)
Inhalative	LC50 (4 h)	1.37 mg/L (Rat)

- **Skin corrosion/irritation** Prolonged and / or repeated skin contact may cause irritation.
- **Serious eye damage/irritation** Contact with eyes may result in mild irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)**
High pressure injection under skin: local necrosis.
Low acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonia.
- **Information on other hazards**
- **Endocrine disrupting properties**
Endocrine disrupting properties from <https://edlists.org>

CAS: 128-37-0 | 2,6-di-tert-butyl-p-cresol

List II

SECTION 12: Ecological information

- **Toxicity**
- **Aquatic toxicity:**
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

EC50 (48 h)	0.61 mg/L (Daphnia) (OECD 202)
NOEC - No observed effect concentration	>0.39 mg/l (Daphnia)

Oleic acid derivative

LC50 (96 h)	6.8 mg/L (Fish)
EC50 (48 h)	0.43 mg/L (Daphnia)

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EC50 (72 h)	6.3 mg/L (Algae)
NOEC - No observed effect concentration	0.91 mg/l (Algae)

· **Persistence and degradability**

The product is not easily, but potentially biodegradable.

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Biodegradability | 30 % (OECD 302C)

· **Bioaccumulative potential** Contains components with the potential to bioaccumulate.

· **Mobility in soil** Low solubility, product floats on water. Absorbs to soil particles.

· **Results of PBT and vPvB assessment**

· **PBT:** The product is not, nor contains, a substance that is, PBT.

· **vPvB:** The product is not, nor contains a substance that is, vPvB.

· **Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

· **Other adverse effects**

Spills may form a film on the water surface. This film may cause physical damage to aquatic organisms and reduce oxygen transfer.

SECTION 13: Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must be specially treated adhering to official regulations.

Hand over to hazardous waste disposers.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· **UN number or ID number**

· **NZS, ADN, IMDG, IATA** Not regulated

· **UN proper shipping name**

· **NZS, ADN, IMDG, IATA** Not regulated

· **Transport hazard class(es)**

· **NZS, ADN, IMDG, IATA**

· **Class** Not regulated

· **Packing group**

· **NZS, IMDG, IATA** Not regulated

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user**

Not applicable.

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|--|-----------------|
| · Maritime transport in bulk according to IMO instruments | Not applicable. |
| · UN "Model Regulation": | Not regulated |

SECTION 15: Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Regulation (EC) no.1907/2006 (REACH)

- **New Zealand Inventory of Chemicals**

CAS: 128-37-0 | 2,6-di-tert-butyl-p-cresol

- **HSNO Approval numbers**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

Please contact your local Alfa Laval Sales Company for further questions.

www.alfalaval.com

- **Relevant phrases**

H315 Causes skin irritation.

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H318 Causes serious eye damage.
H332 Harmful if inhaled.
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.

· **Department issuing SDS:** Alfa Laval Sustainability Environment

· **Contact:**

Please contact your local Alfa Laval Sales Company for further questions.

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Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**

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