



Safety Data Sheet according to WHS Regulations

Printing date 31.10.2022

Version number 2

Revision: 31.10.2022

1 Identification

- **Product identifier**
- **Trade name:** Lubricating Oil ISO VG 320
- **Article number:** 54269084, 54269085
- **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
SE-221 00 Lund
Sweden
+46 46 36 65 00
info.se@alfalaval.com

Australian supplier:
Alfa Laval Australia Pty Ltd
Locked Bag 40, Blacktown Business Centre
NSW - NSW-2148 Blacktown
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Visit: 14 Healey Circuit, - NSW - NSW-2148 Huntingwood
Tel switchboard: +61 2 8822 2700 - Fax switchboard: +61 2 8822 2799
www.alfalaval.com.au
australia.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:**
Call 000 or 112 and ask for poison information.
Australian Poisons Information Centre Tel:13 11 26

2 Hazard(s) Identification

- **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonised System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards**
Prolonged and/or repeated skin contact may cause irritation.
Slight eye irritation may occur upon contact with the eyes.
- **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.

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3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Synthetic base oil with additives.

- **Dangerous components:**

CAS: 128-37-0	2,6-di-tert-butyl-p-cresol	0.25-<1%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- **Description of first aid measures**
- **General information:** Call a POISON CENTER/doctor if you feel unwell.
- **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.
Contact a doctor/physician.
- **Most important symptoms and effects, both acute and delayed**
High pressure injection under skin: local necrosis.
Prolonged and/or repeated skin contact may cause irritation.
Slight eye irritation may occur upon contact with the eyes.
- **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Foam
Fire-extinguishing powder
Carbon dioxide
Water spray
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Not applicable.
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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Cool endangered receptacles with water spray.

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6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

Do not breathe vapour.

- **Environmental precautions:**

Avoid release to the environment.

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.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

- **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.

7 Handling and Storage

- **Handling:**

- **Precautions for safe handling**

Ensure adequate ventilation

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:**

Keep away from heat and direct sunlight.

Store in a dry place.

Keep container tightly closed.

- **Information about storage in one common storage facility:** Store away from oxidising agents.

- **Further information about storage conditions:**

- **Recommended storage temperature:** 5 - 35 °C (41 - 95 °F)

- **Specific end use(s)**

Lubricating oil

Professional use only.

8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** Use only in well-ventilated areas.

- **Control parameters**

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

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol**WES** Long-term value: 10 mg/m³

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- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Do not carry product impregnated cleaning cloths in trouser pockets.
 - Take off contaminated clothing and wash before reuse.
 - Wash hands before breaks and at the end of work.
- **Respiratory protection:**
 - Not necessary if room is well-ventilated.
 - In case of insufficient ventilation, wear suitable respiratory equipment.
- **Protection of hands:**
 - 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
 - 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 protection:** Wear eye/face protection.
- **Body protection:** Wear protective clothing.
- **Limitation and supervision of exposure into the environment**
 - Do not allow to enter sewers/ surface or ground water.

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Colour:	Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
- **Flash point:** 250 °C (ISO 2592)
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**

Lower:	Not determined.
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Upper:	Not determined.
· Oxidising properties	Not applicable.
· Vapour pressure:	< 0.01 @20 °C kPa
· Density at 20 °C:	0.85 g/cm ³ (DIN EN ISO 12185)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 40 °C:	320 mm ² /s
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** Material is stable under normal conditions.
- **Chemical stability**
Stable under normal temperature conditions and under recommended usage and storage.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **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:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **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)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Prolonged and / or repeated skin contact may cause irritation.
No irritant effect.
- **Serious eye damage/irritation**
Contact with eyes may result in mild irritation.

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- Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)**
High pressure injection under skin: local necrosis.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

- **Persistence and degradability**

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

Biodegradability	30 % (OECD 302C)
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- **Behaviour in environmental systems:**
- **Bioaccumulative potential** Contains components with the potential to bioaccumulate.
- **Mobility in soil**
The product is not expected to be mobile 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.
- **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.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Hand over to hazardous waste disposers.
Delivery of waste oil to officially authorised collectors only.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:**
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- | | |
|---|-----------------|
| · UN-Number | |
| · ADG, ADN, IMDG, IATA | Not regulated |
| · UN proper shipping name | |
| · ADG, ADN, IMDG, IATA | Not regulated |
| · Transport hazard class(es) | |
| · ADG, ADN, IMDG, IATA | |
| · Class | Not regulated |
| · Packing group | |
| · ADG, IMDG, IATA | Not regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not regulated |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Industrial Chemicals**
CAS: 128-37-0 | 2,6-di-tert-butyl-p-cresol
- **Standard for the Uniform Scheduling of Medicines and Poisons**
None of the ingredients is listed.
- **Australia: Priority Existing Chemicals**
None of the ingredients is listed.
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **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.

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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

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

· **Contact:**

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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

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

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