



Safety Data Sheet

acc. to OSHA HCS

Printing date 05/12/2022

Version 3

Reviewed on 05/12/2022

1 Identification

- **Product identifier**
- **Trade name: Mereta 320**
- **Article number:** 61203671-09, 61203671-10, 61203671-59
- **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
USA supplier:
Distribution Centre Americas AMDC
200 South Park Boulevard
Greenwood, Indiana 46143
Tel switchboard: +13178022266
- **Information department:**
For additional questions regarding safety data sheets please contact your local Alfa Laval Sales Company which you find on www.alfalaval.com or in safety data sheet under section 16: Other Information
- **Emergency telephone number:**
Call CHEMTREC
+1 703-741-5970 / 1-800-424-9300 CCN 844

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards**
- **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.

3 Composition/information on ingredients

- **Chemical characterization: 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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4 First-aid measures

- **Description of first aid measures**

- **General information:**

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Take off immediately all contaminated clothing.

Immediately rinse with water.

- **After eye contact:**

Rinse opened eye for several minutes under running water.

If symptoms persist consult doctor.

- **After swallowing:**

Wash the mouth with water.

Do NOT induce vomiting.

Contact a doctor

- **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.

Eye contact can cause minor irritation.

- **Indication of any immediate medical attention and special treatment needed**

Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Carbon dioxide

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

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

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

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

Particular danger of slipping on leaked/spilled product.

Avoid contact with the eyes and skin.

Do not inhale dust / smoke / mist.

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- **Environmental precautions:**
Avoid release to the environment.
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.
- **Protective Action Criteria for Chemicals**

· PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Avoid the formation of oil haze.
When using do not eat, drink or smoke.
Avoid contact with skin and eyes.
See Section 8 for information on personal protection equipment.
- **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.
Protect from sunlight.
- **Information about storage in one common storage facility:** Store away from oxidizing 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/personal protection

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

· Components with limit values that require monitoring at the workplace:

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

REL Long-term value: 10 mg/m ³

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TLV	Long-term value: 2* mg/m ³ *as inhalable fraction and vapor, A4
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **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.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**
 Safety glasses
- **Body protection:**
 Protective work clothing
- **Limitation and supervision of exposure into the environment**
Avoid release to the environment.
Inform respective authorities in case of seepage into water course or sewage system.

9 Physical and chemical properties

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

Form:	Liquid
Color:	Colorless
- **Odor:** Characteristic
- **Odor threshold:** Not determined.
- **pH-value:** Not determined.

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· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	250 °C (482 °F) (ISO 2592)
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties	Not applicable.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	0.85 g/cm ³ (7.09325 lbs/gal) (ISO 12185)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 40 °C (104 °F):	320 mm ² /s
· Solvent content:	
VOC content:	0.00 %
· 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.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Reacts with acids, alkalis and oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are 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)

- **Primary irritant effect:**

- **on the skin:**

Caustic effect on skin and mucous membranes.
Prolonged and / or repeated skin contact may cause irritation.

- **on the eye:**

Irritating effect.
Contact with eyes may result in mild irritation.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **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

LC50 (96 h)	>0.57 mg/L (Fish) (OECD 203)
EC50 (48 h)	>0.17 mg/L (Daphnia)
EC50 (72 h)	>0.42 mg/L (Algae)
NOEC - No observed effect concentration	>0.39 mg/l (Daphnia)

- **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)
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- **Behavior in environmental systems:**
- **Bioaccumulative potential** Contains components with the potential to bioaccumulate.
- **Mobility in soil**
Slightly soluble.
The product is not expected to be mobile in soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **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:**
Delivery of waste oil to officially authorized collectors only.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

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15 Regulatory information

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

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

99/45/EC

EINECS/ELINCS - Complies

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value)**

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

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- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

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

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

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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 Corporate Standards & Regulatory Operations

· **Contact:**

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

Argentina: alfa.consulta@alfalaval.com

Australia: australia.info@alfalaval.com

Austria: info.mideurope@alfalaval.com

Belgium: benelux.info@alfalaval.com

Bolivia: alfa.consulta@alfalaval.com

Brazil: alfalaval.br@alfalaval.com

Bulgaria: bulgaria.info@alfalaval.com

Canada: alfacan.info@alfalaval.com

Chile: chile.informacion@alfalaval.com

China: china.info@alfalaval.com

Colombia: info.colombia@alfalaval.com

Croatia: hrvatska.info@alfalaval.com

Czech Republic: czechrepublic.info@alfalaval.com

Denmark: info.nordic.dk@alfalaval.com

Egypt: alme.marketing@alfalaval.com

Estonia: estonia.info@alfalaval.com

Finland: info.fi@alfalaval.com

France: environnement@alfalaval.com

Germany: info.mideurope@alfalaval.com

Greece: greece.info@alfalaval.com

Hungary: info.hu@alfalaval.com

India: india.info@alfalaval.com

Indonesia: alfalindo@alfalaval.com

Israel: israel.info@alfalaval.com

Italy: alfalaval.italia@alfalaval.com

Japan: hp.alfajp@alfalaval.com

Latvia: latvia.info@alfalaval.com

Lithuania: lithuania.info@alfalaval.com

Malaysia: malaysia.info@alfalaval.com

Mexico: mexico.info@alfalaval.com

The Netherlands: benelux.info@alfalaval.com

New Zealand: newzealand.info@alfalaval.com

Norway: info.no@alfalaval.com

Peru: ventas.peru@alfalaval.com

Philippines: philippines.info@alfalaval.com

Poland: poland.info@alfalaval.com

Portugal: portugal.info@alfalaval.com

Qatar: alme.marketing@alfalaval.com

Romania: romania.info@alfalaval.com

Russia: moscow.response@alfalaval.com

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Singapore: al.singapore@alfalaval.com
Slovak Republic: slovakia.info@alfalaval.com
Slovenia: slovenija.info@alfalaval.com
South Africa: info.sa@alfalaval.com
Spain: info.spain@alfalaval.com
Sweden: info.se@alfalaval.com
Switzerland: info.mideurope@alfalaval.com
Taiwan: taiwan.info@alfalaval.com
Thailand: thailand.info@alfalaval.com
Turkey: turkey@alfalaval.com
Ukraine: ukraine.info@alfalaval.com
United Arab Emirates: alme.marketing@alfalaval.com
United Kingdom: general.uk@alfalaval.com
United States: customerservice.usa@alfalaval.com
Venezuela: venezuela.info@alfalaval.com
Vietnam: vietnam.info@alfalaval.com

· **Date of preparation / last revision 05/12/2022 / 2**

· **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

DOT: US Department of Transportation

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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

US