



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- **1.1 Product identifier**
- **Trade name:** Alfa Laval Lubricating Oil SHC 320
- **Article number:** 558129-80
- **1.2 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
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**
Alfa Laval Tumba AB
Hans Stahles väg 7
S-147 80 Tumba
Sweden
+46 8 530 650 00
info.se@alfalaval.com

Contact details for all countries are continually updated on our website.
Please visit www.alfalaval.com to access the information.
The latest version of Alfa Laval's SDS is available on our website.

- **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
- **1.4 Emergency telephone number:**
For immediate, life-threatening emergencies, call 999
For health advice and information (24h) dial 111 (NHS direct).

In Europe: Call 112 and ask for poison information.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**
EUH210 Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

GB

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· **Dangerous components:**

CAS: 16958-92-2 EINECS: 241-029-0	Ditridecyl adipate substance with a Community workplace exposure limit	10-25%
	Highly refined mineral oil (DMSO <3%, IP 346) substance with a Community workplace exposure limit	
CAS: 10254-57-6 EINECS: 233-593-1	4,4'-methylene bis(dibutylthiocarbamate) Aquatic Chronic 4, H413	2.5-10%

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **General information:**

Immediately remove any clothing soiled by the product.

Wash contaminated clothing before reuse.

Call a POISON CENTER/doctor/physician/if you feel unwell.

· **After inhalation:** Supply fresh air; consult doctor if symptoms persists.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do NOT induce vomiting.

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 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:** Water with full jet

· 5.2 Special hazards arising from the substance or mixture

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

Carbon monoxide and carbon dioxide

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

(Contd. of page 2)

Aldehyde

Sulphur dioxide (SO₂)

Hydrocarbons

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

In case of fire: Evacuate area.

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

Additional information Cool endangered receptacles with water spray.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Do not breathe vapour.

Particular danger of slipping on leaked/spilled product.

Avoid contact with spilled material.

See Section 8 for information on personal protection equipment.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 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.

Pick up mechanically.

Remove from the water surface (e.g. skim or suck off).

Use only non-sparking tools.

6.4 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**7.1 Precautions for safe handling**

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Avoid the formation of oil haze.

Avoid contact with skin and eyes.

See Section 8 for information on personal protection equipment.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

7.2 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 cool location.

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

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

(Contd. of page 3)

- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Protect from humidity and water.
- **7.3 Specific end use(s)**
Lubricating oil
Professional use only.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

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

CAS: 16958-92-2 Ditridecyl adipate

EXPOSURE LIMITS	Short-term value: - mg/m ³ Long-term value: 5.0 mg/m ³ Source: Producer.
-----------------	--

Highly refined mineral oil (DMSO <3%, IP 346)

EXPOSURE CONTROLS	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
-------------------	---

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Use only in well-ventilated areas.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
Do not carry product impregnated cleaning cloths in trouser pockets.
In case of insufficient ventilation, wear suitable respiratory equipment.
Take off contaminated clothing.
- **Respiratory protection:**
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**
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:** Wear eye/face protection.
- **Body protection:**
Protective work clothing

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

Oil resistant protective clothing

(Contd. of page 4)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Fluid
· Colour:	Yellowish
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

· Melting point/freezing point:	Undetermined. -33 °C
· Initial boiling point and boiling range:	>316 °C

· Flash point: >210 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: >200 °C

· 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.
· Upper:	Not determined.

· Vapour pressure at 20 °C: <0.1 hPa (0,1 mm Hg)

· Density at 20 °C: 0.86 g/cm³

· Relative density: Not determined.

· Vapour density at 20 °C: >2 (101 kPa)

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water: Insoluble.

· Partition coefficient: n-octanol/water: >3.5 log POW

· Viscosity:

· Dynamic:	Not determined.
· Kinematic at 40 °C:	335 mm ² /s

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity: No further relevant information available.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

(Contd. of page 5)

- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Flammable vapour-air mixtures may develop if stored in large receptacles and above room temperature.
Used empty containers may contain product gases which form explosive mixtures with air.
- **10.4 Conditions to avoid** Keep away from sources of ignition - No smoking.
- **10.5 Incompatible materials:** Reacts with strong oxidising agents.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide
Sulphur dioxide
Aldehyde
Hydrocarbons

SECTION 11: Toxicological information

Irritation of skin	Skin corrosion/Irritation	(rabbit) Low risk for skin irritation at normal room temperature. Based on test data for a structurally similar product.
--------------------	---------------------------	--

- **11.1 Information on toxicological effects**

- **Acute toxicity**

Oral	LD50	>5,000 mg/kg (rat) Based on test data for a structurally similar product.
Dermal	LD50	>5,000 mg/kg (rabbit) Based on test data for a structurally similar product.
Inhalative	Inhalation	>5,000 mg/m ³ (rat) Based on test data for a structurally similar product.
Irritation of eyes	Irritation/Corrosion	- (rabbit) Might give a slight, short discomfort in the eyes. Based on test data for a structurally similar product.

Based on available data, the classification criteria are not met.

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Prolonged and / or repeated skin contact combined with poor personal hygiene may cause inflammation of the skin in the form of dermatitis, eczema and oil acne.
Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.
- **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.
- **Acute effects (acute toxicity, irritation and corrosivity)**
Low acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonia.

- **Repeated dose toxicity**

Inhalative	Repeated Dose Toxicity	(No information available) (Component analysis) Low risk when handling the product in normal room temperature.
------------	------------------------	---

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

(Contd. of page 6)

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Product contains mineral oils of types shown to be noncarcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

LC50	>1,000 mg/L (No information available) (No information available)
	The product is not expected to be harmful to aquatic organisms.

- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** Low solubility, product floats on water. Absorbs to soil particles.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 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

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
Hand over to hazardous waste disposers.
- **European waste catalogue**
Dangerous Waste

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 02 00	waste engine, gear and lubricating oils
13 02 06*	synthetic engine, gear and lubricating oils

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

(Contd. of page 7)

- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN-Number
· ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards:
· Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU Regulation (EC) no.1907/2006 (REACH)
EU regulation (EC) no 1272/2008 (CLP)
EC DIRECTIVE 2008/98/EC (waste)
- **15.2 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

(Contd. on page 9)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

(Contd. of page 8)

guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

Relevant phrases

H413 May cause long lasting harmful effects to aquatic life.

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

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

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

(Contd. on page 10)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Alfa Laval Lubricating Oil SHC 320

(Contd. of page 9)

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

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

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

GB