

Safety Data Sheet according to HPR, Schedule 1

Printing date 02/02/2022

Version 8

Reviewed on 02/02/2022

1 Identification

- **Product identifier**
- **Trade name: Alfa Laval Lubricating Oil SHC 320**
- **Article number:** 558129-80
- **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
- **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 Informaion
- **Emergency telephone number:**
Call CHEMTREC
+1 703-741-5970 / 1-800-424-9300 CCN 844

2 Hazard 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
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- **Other hazards** No further relevant information available.

3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**

· **Description:**

CAS: 16958-92-2	Ditridecyl adipate	10-<20% w/w
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10-<20% w/w

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CAS: 10254-57-6	4,4'-methylene bis(dibutyldithiocarbamate)	1-<5% w/w
CAS: 68442-69-3	benzene, mono-C10-14-alkyl derivs. Aspiration Hazard - Category 1, H304; Skin Irritation - Category 2, H315	0.1-<0.25% w/w
CAS: 597-82-0	Phosphorothioic acid, O,O,O-triphenyl ester Reproductive Toxicity - Category 2, H361	0.1-<1% w/w

· **Dangerous components:** Void

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **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:**
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.
Eye contact can cause minor irritation.
Prolonged and/or repeated skin contact may cause irritation.
Inhalation of mist may cause irritation to upper respiratory tract.
- **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
Water spray
Use fire fighting measures that suit the environment.
- **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.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

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

Particular danger of slipping on leaked/spilled product.

Ensure adequate ventilation

Do not breathe vapour.

Avoid contact with spilled material.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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

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

Pick up mechanically.

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**

Avoid the formation of oil haze.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

See Section 8 for information on personal protection equipment.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **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 oxidizing agents.

Keep away from combustible materials.

- **Further information about storage conditions:** Protect from heat and direct sunlight.

- **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.

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- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 - Oil mist/smoke ACGIH TLV: 5 mg/m³
 - ACGIH STEL: 10 mg/m³
 - OSHA PEL: 5 mg/m³
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Take off contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Do not carry product impregnated cleaning cloths in trouser pockets.
- **Breathing equipment:** 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**
 - 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.
- **Eye protection:** If eye contact is likely, safety glasses with side shields are recommended.
- **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:	Fluid
Color:	Yellowish
Odor:	Characteristic
Odor threshold:	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Undetermined. -33 °C
Boiling point/Boiling range:	>316 °C
- **Flash point:** >210 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** >200 °C
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.

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· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Oxidizing properties	Not applicable.
· Vapor pressure at 20 °C:	<0.1 hPa (0,1 mm Hg)
· Density at 20 °C:	0.86 g/cm ³
· Relative density	Not determined.
· Vapor density at 20 °C	>2 (101 kPa)
	Not determined.
· 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
· 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** Store away from oxidizing agents.
- **Incompatible materials:** None known.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Prolonged and / or repeated skin contact may cause irritation.
- **on the eye:** 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)**
None of the ingredients is listed.

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- **NTP (National Toxicology Program)**

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:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential**

Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.

- **Mobility in soil** The product is not expected to be mobile in soil.

- **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:**

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

Hand over to hazardous waste disposers.

Delivery of waste oil to officially authorized collectors only.

- **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/TDG, ADR, ADN, IMDG, IATA** Void

- **UN proper shipping name**

- **DOT/TDG, ADR, ADN, IMDG, IATA** Void

- **Transport hazard class(es)**

- **DOT, ADR, ADN, IMDG, IATA**

- **Class** Void

- **Packing group**

- **DOT/TDG, ADR, IMDG, IATA** Void

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- | | |
|--|-----------------|
| · 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 |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU Regulation (EC) no.1907/2006 (REACH)
- **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.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

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 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

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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.

· **Department issuing SDS:** Alfa Laval Corporate Standards & Regulatory Operations

· **Contact:**

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· **Date of the latest revision of the safety data sheet** 02/02/2022 / 7

· **Abbreviations and acronyms:**

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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

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

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