



Safety Data Sheet

acc. to OSHA HCS

Printing date 12/18/2015

Version 10

Reviewed on 12/18/2015

1 Identification

- **Product identifier**
- **Trade name:** **SMØREOLJE / Lube oil**
- **Article number:** 567335-02
- **Application of the substance / the mixture** Lubricating oil
- **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
- **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:** US and Canada: 911

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**
Information on high pressure equipment:
Accidental speed injection under the skin of this type of material can cause serious injury. Seek immediately medical attention if an accident of this nature occur. It is possible that the wound at the injection site does not look so severe at first sight, but if it is not treated it can lead to malformation or amputation of the affected limb.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

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· Dangerous components:

Highly refined mineral oil (DMSO <3%, IP 346) * (* Highly refined mineral oil = Group Name: Base oil unspecified CAS / EINECS No: 101316-72-7/309-877-7; 74869-22-0/278-012-2; 64742-62-7/265-166-0; 64742-53-6/265-156-6; 64742-52-5/265-155-0; 64742-56-9/265-159-2; 64742-54-7/265-157-1; 64742 - 57-0/265-160-8 for which DMSO <3%, IP 346 EU Directive - Group name gasoil, unspecified 64742-46-7/265-148-2 satisfying remark N according to EU and Concawe Highly refined base oil 8042 -47-5/232-455-8; 92045-45-9/295-426-9.	50-100%
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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.

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:

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER.

· Information for doctor:**· Most important symptoms and effects, both acute and delayed**

High pressure injection under skin: local necrosis.

Information on high pressure equipment:

Accidental speed injection under the skin of this type of material can cause serious injury. Seek immediately medical attention if an accident of this nature occurs. Even if the wound at the injection site does not look that severe at a first glance, it may lead to malformation or amputation of the affected limb if not treated directly.

· Indication of any immediate medical attention and special treatment needed

A high-pressure injection of product into the skin may lead to local necrosis if the product is not surgically removed.

5 Fire-fighting measures

· Extinguishing media**· Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Carbon dioxide

· For safety reasons unsuitable extinguishing agents: Water**· 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:** Mouth respiratory protective device.

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Additional information

Cool endangered receptacles with water spray.

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

Wear protective equipment. Keep unprotected persons away.

See Section 8 for information on personal protection equipment.

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.

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 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.

When using do not eat, drink or smoke.

Do not breathe vapour.

Avoid contact with skin.

Avoid contact with eyes.

Information about protection against explosions and fires: No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly closed.

Information about storage in one common storage facility: Store away from oxidizing agents.**Further information about storage conditions:** None.**Specific end use(s)**

Lubricant

Professional use only.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

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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

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

(* Highly refined mineral oil = Group Name: Base oil unspecified CAS / EINECS No: 101316-72-7/309-877-7; 74869-22-0/278-012-2; 64742-62-7/265-166-0; 64742-53-6/265-156-6; 64742-52-5/265-155-0; 64742-56-9/265-159-2; 64742-54-7/265-157-1; 64742 - 57-0/265-160-8 for which DMSO <3%, IP 346 EU Directive - Group name gasoil, unspecified 64742-46-7/265-148-2 satisfying remark N according to EU and Concawe Highly refined base oil 8042 -47-5/232-455-8; 92045-45-9/295-426-9.

ACGIH (TWA)	Short-term value: 5 mg/m ³ 8 h
TWA	Short-term value: 5 mg/m ³ 8 h

- **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 eat, drink, smoke or sniff while working.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**



Protective gloves

- **Material of gloves** Nitrile rubber, NBR
- **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.



Tightly sealed goggles

- **Body protection:** Oil resistant protective clothing

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9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	Oily
Color:	Yellowish
Odor:	Light
Odor threshold:	Not determined.

- pH-value: Not determined.

- Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

- Flash point: 272 °C (522 °F)

- Flammability (solid, gaseous): Not applicable.

- Ignition temperature:

- Decomposition temperature: Not determined.

- Danger of explosion: Product does not present an explosion hazard.

- Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

- Vapor pressure at 20 °C (68 °F): <0.01 kPa

- Density at 20 °C (68 °F): 0.884 g/cm³ (7.377 lbs/gal) (ASTM D4052)

- Relative density: Not determined.

- Vapor density: Not determined.

- Evaporation rate: Not determined.

- Solubility in / Miscibility with

- Water: Not miscible or difficult to mix.

- Partition coefficient (n-octanol/water): >3

- Viscosity:

Dynamic:	Not determined.
Kinematic at 40 °C (104 °F):	100 mm ² /s

- Solvent content:

- Organic solvents: 0.0 %

- VOC content: 0 %

- Other information: No further relevant information available.

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10 Stability and reactivity

- **Reactivity** Reacts with strong oxidizing agents.
- **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**
Keep away from heat.
Keep away from sources of ignition - No smoking.
- **Incompatible materials:** Store away from oxidizing agents.
- **Hazardous decomposition products:**
No dangerous decomposition products known.
Formation of toxic gases is possible during heating or in case of fire.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:**
Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.
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.
- **on the eye:** Irritating effect.
- **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.

• NTP (National Toxicology Program)
None of the ingredients is listed.

• OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** Not harmful to aquatic organisms. Expected LC/EC 50 value: >100 mg/L.
- **Persistence and degradability** The product is not easily, but potentially biodegradable.
- **Behavior in environmental systems:**
- **Bioaccumulative potential**
Contain components with the potential to bioaccumulate.
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> 3
- **Mobility in soil**
Low solubility, product floats on water. Absorbs to soil particles.
The product is not expected to be mobile in soil.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (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.
- **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:**
When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|------------------------------------|------|
| • UN-Number | |
| • DOT, ADR, ADN, IMDG, IATA | Void |
| • UN proper shipping name | |
| • DOT, ADR, ADN, IMDG, IATA | Void |

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- | | |
|--|-----------------|
| · 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 |

15 Regulatory information

- **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)
- **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):

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.

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· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· 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 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.

· Department issuing SDS: Alfa Laval Materials and Chemistry Centre (MACC)**· Contact:**

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

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South Africa: info.sa@alfalaval.com
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• **Date of preparation / last revision 12/18/2015 / 9**

• **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
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
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
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit

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REL: Recommended Exposure Limit

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

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