



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

Printing date 07.11.2013

Version number 2

Revision: 07.11.2013

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

- **1.1 Product identifier**
- **Trade name: Azolla ZS 68 / Alfa Laval Smørolja**
- **Article number:** 567334-01, 567334-02
- **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**
- **Manufacturer/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](http://www.alfalaval.com) to access the information.  
The latest version of Alfa Laval's SDS is available on our website.

- **Further information obtainable from:** [sds.question@alfalaval.com](mailto:sds.question@alfalaval.com)
- **1.4 Emergency telephone number:**  
For immediate, life-threatening emergencies, call 999

For health advice and information (24h) dial 111 (NHS direct)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- **2.2 Label elements**
- **Labelling according to EU guidelines:**  
The product has been marked in accordance with EU Directives / respective national laws.
- **Special labelling of certain preparations:**  
Safety data sheet available for professional user on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

##### · Description:

CAS: 8012-95-1 EINECS: 232-384-2	Paraffin oils	80-100%
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##### · Dangerous components:

CAS: 68649-42-3 EINECS: 272-028-3	Zinc dithiophosphate Xi R38-41; N R51/53 Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	<0.6%
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##### · Additional information:

The classification as carcinogens does not apply since the substances above contain less than 3 % DMSO extract as measured by the method IP 346, defined by the Institute of Petroleum, London.  
For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 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).

Immediately remove any clothing soiled by the product.

· **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:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Contact a doctor/physician.

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

High pressure injection under skin: local necrosis.

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

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.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Carbon dioxide

Foam

ABC powder

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- Water spray
- **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 (CO)  
Aldehyde
  - **5.3 Advice for firefighters**
  - **Protective equipment:** Mouth respiratory protective device.
  - **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Do not breathe vapour.  
Avoid contact with spilled material.  
Particular danger of slipping on leaked/spilled product.
- **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).  
Pick up mechanically.  
Send for recovery or disposal in suitable receptacles.
- **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**  
When using do not eat, drink or smoke.  
Avoid the formation of oil haze.  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with skin and eyes.  
Avoid release to the environment.
- **Information about fire - and explosion protection:**  
Protect against electrostatic charges.  
Keep ignition sources away - Do not smoke.
- **7.2 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.  
Store only in the original receptacle.  
Store at 0 °C - 50 °C.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**  
Protect from frost.  
Protect from heat and direct sunlight.  
Provide ventilation for receptacles.

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- **7.3 Specific end use(s)**  
Lubricating oil  
Restricted to professional users.

### 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:**

**Oil mist including oil smoke**

EXPOSURE CONTROLS	Long-term value: 1 mg/m <sup>3</sup> Reference: GESTIS United Kingdom
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- **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.  
Wash hands before breaks and at the end of work.  
Do not inhale dust / smoke / mist.  
Keep away from foodstuffs, beverages and feed.  
Ground/bond container and receiving equipment.  
Ensure that washing facilities are available at the work place.  
Do not carry product impregnated cleaning cloths in trouser pockets.  
Take off contaminated clothing and wash before reuse.
- **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.



Protective gloves

- **Material of gloves**  
Nitrile rubber, NBR  
Fluorocarbon rubber (Viton)
- **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:**  
Apron  
Boots  
Full protective clothing

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**· Limitation and supervision of exposure into the environment**

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

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

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties**
**· General Information**
**· Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Yellow
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**· pH-value:** Not determined.

**· Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
<b>Drip point:</b>	<-15 °C

**· Flash point:** 210 °C

**· Flammability (solid, gaseous):** Not applicable.

**· Ignition temperature:**
**Decomposition temperature:** Not determined.

**· Self-igniting:** >250 °C

**· Danger of explosion:** Product does not present an explosion hazard.

**· Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**· Vapour pressure:** Not determined.

**· Density:** Not determined.

**· 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.  
>6 LogPow

**· Viscosity:**

<b>Dynamic:</b>	Not determined.
<b>Kinematic at 20 °C:</b>	68 mm <sup>2</sup> /s

**· Solvent content:**
**Organic solvents:** 0.0 %

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

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** The material is stable under recommended storage and handling conditions.
- **10.2 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.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**  
High heat  
Direct sun light.  
Keep away from sources of ignition - No smoking.
- **10.5 Incompatible materials:** Reacts with strong oxidizing agents.
- **10.6 Hazardous decomposition products:** No further information, refer to section 5.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**

<b>68649-42-3 Zinc dithiophosphate</b>		
Inhalative	LC50/4 h	1-1.5 mg/l (daphnia)

- **Primary irritant effect:**

- **on the skin:**

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:** 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 the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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

- **Acute effects (acute toxicity, irritation and corrosivity)**

Ingestion of large amounts can cause nausea and diarrhea.

Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

### SECTION 12: Ecological information

- **12.1 Toxicity**

<b>68649-42-3 Zinc dithiophosphate</b>		
EC50	1-1.5 mg/L	(daphnia)

- **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.

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- **12.4 Mobility in soil** The product is not expected to be mobile in soil.
- **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**  
When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed.
- **European waste catalogue**  
The European Waste Catalogue (EWC) waste codes do not refer to product but to origin. The manufacturer is therefore unable to quote a waste code for products which are used in various industries. Any codes shown should be regarded as a recommendation to the user.

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 01 00	waste hydraulic oils
13 01 10*	mineral based non-chlorinated hydraulic oils

- **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

- |   |      |
|---|------|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>  | Void |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> </ul>                            | Void |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul> | Void |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | Void |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>                                | No   |

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- |   |                 |
|---|-----------------|
| · <b>14.6 Special precautions for user</b>  | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

### 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 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**

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H411 Toxic to aquatic life with long lasting effects.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Department issuing MSDS:** MACC -Materials & Chemistry Centre
- \* **Data compared to the previous version altered.**