



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

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

- **1.1 Product identifier**
- **Trade name:** Zeniplex EP 1
- **Article number:** 9AB68Q
- **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** Lubricant
- **1.3 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
- **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
- **2.3 Other hazards**
Inhalation of mist may cause irritation to upper respiratory tract.
Prolonged and/or repeated skin contact may cause irritation.
Slight eye irritation may occur upon contact with the eyes.
- **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.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 1)

· Dangerous components:

CAS: 64742-65-0 EINECS: 265-169-7	Distillates (petroleum), solvent-dewaxed heavy paraffinic substance with a Community workplace exposure limit	10-30%
CAS: 8042-47-5 EINECS: 232-455-8	White mineral oil, petroleum substance with a Community workplace exposure limit	3-7%
CAS: 68649-42-3 EINECS: 272-028-3	Zinc dithiophosphate Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.5-1.5%

· 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 hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: Call a POISON CENTER/doctor if you feel unwell.

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

· 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:

Rinse out mouth and then drink plenty of water.

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.

Inhalation of mist may cause irritation to upper respiratory tract.

Prolonged and/or repeated skin contact may cause irritation.

Slight eye irritation may occur upon contact with the eyes.

· 4.3 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.

SECTION 5: Firefighting measures

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

Water haze

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.

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 2)

- **5.3 Advice for firefighters**
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information**
 - Cool endangered receptacles with water spray.
 - 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**
 - Ensure adequate ventilation
 - Do not breathe vapour.
 - Avoid skin and eye contact
 - Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **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.
- **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**
 - Ensure adequate ventilation
 - Do not breathe vapour.
 - When using do not eat, drink or smoke.
- **Information about fire - and explosion protection:**
 - Keep ignition sources away - Do not smoke.
 - Protect against electrostatic charges.
- **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.
- **Information about storage in one common storage facility:** Store away from oxidising agents.
- **Further information about storage conditions:** Store receptacle in a well ventilated area.
- **7.3 Specific end use(s)**
 - Lubricant
 - Professional use only.

GB

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic

CONTROL PARAMETERS	Long-term value: 1 mg/m ³ Oil mist, metal working fluids, Ref: GESTIS UK.
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CAS: 8042-47-5 White mineral oil, petroleum

WEL	Long-term value: 10 mg/m ³
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DNELs

CAS: 8042-47-5 White mineral oil, petroleum

Dermal	DNEL - Long term, Systemic effects	220 mg/kg bw/day
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Inhalative	DNEL - Long term, Systemic effects	120 mg/m ³
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Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not carry product impregnated cleaning cloths in trouser pockets.

Take off contaminated clothing.

Respiratory protection:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device when high concentrations are present.

Hand protection

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.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection If eye contact is likely, safety glasses with side shields are recommended.

Body protection: Wear protective clothing.

Environmental exposure controls

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

Send for recovery or disposal in suitable receptacles.

GB

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 4)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:	Brown
· Odour:	Mineral-oil-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	Undetermined.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	232 °C (ASTM D 92 Open Cup)
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 40 °C	220 mm ² /s
· Dynamic:	Not determined.
· Solubility	
· water:	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	<0.1 @ 38 °C
· Density and/or relative density	
· Density at 20 °C:	≤1 g/cm ³
· Vapour density	>8 (air = 1)

· 9.2 Other information

· Appearance:	
· Form:	Highly viscous
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Drip point:	
· Oxidising properties	Not applicable.
· Evaporation rate	<1.0 (Ethyl ether = 1)

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 5)

- | | |
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| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Material is stable under normal conditions.
- **10.2 Chemical stability**
Stable under normal temperature conditions and under recommended usage and storage.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** High temperature
- **10.5 Incompatible materials:** Store away from oxidising agents.
- **10.6 Hazardous decomposition products:** None known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

CAS: 64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	5.53 mg/L (Rat) (4 h, male and female)

CAS: 8042-47-5 White mineral oil, petroleum

Dermal	LD50	>2,000 mg/kg (Rabbit)
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CAS: 68649-42-3 Zinc dithiophosphate

Oral	LD50	2,900 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)

- **Skin corrosion/irritation** Prolonged and / or repeated skin contact may cause irritation.
- **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.
- **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.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)**
Inhalation of mist may cause irritation to upper respiratory tract.
High pressure injection under skin: local necrosis.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 6)

- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
Endocrine disrupting properties from <https://edlists.org>

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 8042-47-5 White mineral oil, petroleum

LC50	>100 mg/L (Salmon trout) (OECD Test 203) Exp Time: 96 h
EC50	>100 mg/L (Daphnia) (OECD TG 202) Exp Time: 48 hours
NOEC - No observed effect concentration	100 mg/l (Algae) (OECD TG 201) Exp Time: 72 hours 1 mg/l (Daphnia) Exp time: 21 days 1 mg/l (Fish) Exp Time: 28 days

CAS: 68649-42-3 Zinc dithiophosphate

LC50 (96 h)	4.5 mg/L (Fish)
EC50 (48 h)	1.2 mg/L (Daphnia)
EC50 (72 h)	2.2 mg/L (Algae)
NOEC - No observed effect concentration	1 mg/l (Algae) 0.4 mg/l (Daphnia) 21 d 1.8 mg/l (Fish) 28 d

· 12.2 Persistence and degradability

CAS: 8042-47-5 White mineral oil, petroleum

Biodegradability	31 % (No information available) Exp Time: 28 Days Result: No easy degradation
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· 12.3 Bioaccumulative potential

CAS: 68649-42-3 Zinc dithiophosphate

log Pow	0.56
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- **12.4 Mobility in soil** The product is not expected to be mobile in soil.

· 12.5 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.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

(Contd. on page 8)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 7)

12.7 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**

Hand over to hazardous waste disposers.
Delivery of waste oil to officially authorised collectors only.

yes European waste catalogue

Dangerous Waste

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.

Uncleaned packaging:**Recommendation:**

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 or ID number**

ADR, ADN, IMDG, IATA

Not regulated

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Not regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Not regulated

14.4 Packing group

ADR, IMDG, IATA

Not regulated

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

UN "Model Regulation":

Not regulated

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU regulation (EC) no 1272/2008 (CLP)

EC DIRECTIVE 2008/98/EC (waste)

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 8)

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **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.

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

www.alfalaval.com

· Relevant phrases

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

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

· Contact:

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

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(Contd. on page 10)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 9)

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• **Date of previous version:** 12.08.2020

• **Version number of previous version:** 4

• **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

(Contd. on page 11)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2022

Version number 5

Revision: 24.03.2022

Trade name: Zeniplex EP 1

(Contd. of page 10)

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)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

GB