



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

Printing date 23.08.2023

Version number 2 (replaces version 1)

Revision: 23.08.2023

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

- **1.1 Product identifier**
- **Trade name:** Shell Sterak Grease 1
- **Article number:** H92016, H92016.Z
- **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**
- **Manufacturer/Supplier:**
ZF Aftermarket UK Ltd.
Abbeyfield Road
Lenton
Nottingham, NG7 2SX
Tel +44 333 240 1123
Fax +44 115 986 92 61
<https://www.zf.com>
- **Informing department:** Phone: +49 (0) 2631 / 912 - 0
- **1.4 Emergency telephone number:**
Poison Information Center Munich
Phone: +49 (0) 89 - 19 240
Information in German and English

* 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 GB 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:** Test results are available which prove that the product is not skin-sensitising.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

* SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below including additives not requiring identification.

· **Dangerous components:**

CAS: 84418-50-8	Naphthenic acids, zinc salts, basic	≥ 1 - < 2.5%
EINECS: 282-762-6	⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119988500-34-X		

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* **SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Wash with water and soap.
In case of skin irritations or sensitizing effects, consult doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing** In case of persistent symptoms consult doctor.
- **Information for doctor**
The treatment should depend on the symptoms and be oriented to mitigate the effects.
- **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**
The product itself does not burn.
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** None known.
- **5.2 Special hazards arising from the substance or mixture**
Inhalation of combustion gases may cause serious health hazards.
During incomplete combustion carbon monoxide can be formed.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Remove goods in stock from incendiary zone, if possible.
Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.
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**
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Gather mechanically and reuse, if possible.
Clean contaminated surfaces thoroughly.
- **6.3 Methods and material for containment and cleaning up:**
Collect mechanically.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling

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See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Avoid contact with eyes and skin.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:**
Store away from oxidising agents.
Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **PNECs**

84418-50-8 Naphthenic acids, zinc salts, basic

PNEC aqua (freshwater)	0.00639 mg/L (.)
PNEC aqua (marine water)	0.00064 mg/L (.)
PNEC STP - Sewage Treatment Plant	0.14773 mg/L (.)
PNEC soil	6.38 mg/kg soil dw (.)
PNEC sediment (freshwater)	31.93 mg/kg sedim. dw (.)
PNEC sediment (marine water)	3.19 mg/kg sedim. dw (.)

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
Avoid close or long term contact with the skin.
Wash hands during breaks and at the end of the work.
- **Breathing equipment:** Not required.
- **Hand protection** No special precautions necessary if used correctly.
- **Material of gloves** Not required.
- **Penetration time of glove material** Not required.

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· **Eye/face protection**



Safety glasses

* **SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· Physical state	Solid
· Colour:	Light brown
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	Not determined
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1 Vol %
· Upper:	10 Vol %
· Flash point:	Not applicable
· Auto-ignition temperature:	> 320 °C
· SADT	
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/water (log value)	> 6 log POW
· Vapour pressure at 20 °C:	< 0.5 Pa
· Density and/or relative density	
· Density	Not determined
· Relative density at 20 °C	1
· Settled apparent density at 20 °C	1000 kg/m ³

· **9.2 Other information**

· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	Not determined.
· VOC EU	0 %
· Change in condition	
· Drip point:	175 °C (IP 132)
· Evaporation rate	Not determined.

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· 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
· 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** No further relevant information available.
- **10.2 Chemical stability**
- **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** No further relevant information available.
- **10.5 Incompatible materials:** Avoid contact with strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

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 that are relevant for classification:**84418-50-8 Naphthenic acids, zinc salts, basic**

Oral	LD50	> 2,000 mg/kg (rat) (OECD 423)
Dermal	LD50	> 2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	> 420 mg/l/4h (rat) (OECD 403)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**
Test results are available which prove that the product is not skin-sensitising.

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- **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.
- **11.2 Information on other hazards**

· Endocrine disrupting properties
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None of the ingredients is listed.

* SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

84418-50-8 Naphthenic acids, zinc salts, basic

LC50	0.727 mg/l/96h (Oncorhynchus kisutch)
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EC50	3.62 mg/l/72h (Raphidocelis subcapitata) (OECD 201)
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- **12.2 Persistence and degradability** Heavily biodegradable
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**

· Behaviour in sewage processing plants:

84418-50-8 Naphthenic acids, zinc salts, basic

EC50	5.2 mg/l/3h (activated sludge) (OECD 209)
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· Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
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* SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Proceed according to local, official regulations.

The waste code numbers mentioned are recommendations based on the probable use of the product.

· European waste catalogue

12 00 00	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
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12 01 00	wastes from shaping and physical and mechanical surface treatment of metals and plastics
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12 01 12*	spent waxes and fats
HP 14	Ecotoxic

- **Uncleaned packagings:**
- **Recommendation:** Deposit drained containers in the waste.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR/RID, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR/RID, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/RID, IMDG, IATA	Void
· 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.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Chemical safety assessment**
- **Named dangerous substances - ANNEX I** 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.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

· Department issuing data specification sheet:

 **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
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· 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
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)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * Data compared to the previous version altered.

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