



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Print Date: 04.02.2010

Revision Date :  
04.02.2010

Version : 1.0

DE / EN

Commercial Product Name: **ZF-Lifeguardfluid 8**

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product information

Commercial Product Name : ZF-Lifeguardfluid 8  
Company : **ZF Getriebe GmbH**  
Südring  
66117 Saarbrücken  
Deutschland  
Telephone : +49 681 920 2642  
Telefax : +49 681 920 131 2642  
Contact person : Abteilung Technische Planung MKTP  
E-mail address : [aftersales-sbr@zf.com](mailto:aftersales-sbr@zf.com)  
Emergency telephone : +49 681 920-2222 (Werksärztlicher Dienst)

#### Use

Specific use(s) : Gear oil

### 2. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical nature

Mineral oils, Additives

#### Hazardous components

Chemical Name	CAS-No.	EC-No. / Registration number	Classification	Concentration[%]
alkyl acetamide			Xi; R38 R43	2 - < 3
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.	61791-44-4	263-177-5	Xn; R22 C; R34 R43 N; R50	0,2 - < 0,5



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calcium sulphonate			R43	0,2 - < 0,5
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### 4. FIRST AID MEASURES

General advice : If you feel unwell, seek medical advice (show the label where possible).  
Remove from exposure, lie down.  
Never give anything by mouth to an unconscious person.  
Take off all contaminated clothing immediately.  
Wash contaminated clothing before re-use.

Inhalation : Remove to fresh air.  
Keep patient warm and at rest.  
In the case of inhalation of aerosol/mist consult a physician if necessary.

Skin contact : Wash off immediately with soap and plenty of water.

Eye contact : Remove contact lenses.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion : If swallowed, seek medical advice immediately and show this container or label.  
Do NOT induce vomiting.

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### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Foam  
Water spray  
Carbon dioxide (CO2)  
Water mist  
Dry powder  
Sand

Extinguishing media which shall not be used for safety reasons : High volume water jet



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Specific hazards during fire fighting : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

Further information : Standard procedure for chemical fires.  
In the event of fire and/or explosion do not breathe fumes.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Refer to protective measures listed in sections 7 and 8.  
Ensure adequate ventilation, especially in confined areas.

Environmental precautions : Try to prevent the material from entering drains or water courses.  
Avoid subsoil penetration.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

Additional advice : Contaminated surfaces will be extremely slippery.

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### **7. HANDLING AND STORAGE**

Handling

Advice on safe handling : Avoid contact with skin and eyes.  
Avoid formation of aerosol.  
For personal protection see section 8.



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Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Dust explosion class : not applicable

### Storage

Requirements for storage areas and containers : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep in properly labelled containers.  
Keep away from heat.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.  
Incompatible with oxidizing agents.

German storage class : 10, Combustible liquids not in Storage Class 3

Storage temperature : 0 - 50 °C

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Engineering measures

General advice : Provide adequate ventilation.

### Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.

### Hand protection

Material : Neoprene  
Nitrile rubber  
Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.  
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.



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Eye protection : Safety glasses

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Avoid contact with the skin and the eyes.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Wash contaminated clothing before re-use.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form : liquid

Colour : green

Odour : very faint  
hydrocarbon-like

#### Safety data

pH : not applicable

Drop point : -42 °C

Boiling point/boiling range : >280 °C

Flash point : 215 °C

Vapour pressure : <0,5 Pa  
at 20 °C

Bulk density : 848 kg/m<sup>3</sup>

Partition coefficient: n-octanol/water : POW: >6

Solubility in other solvents : insoluble

Viscosity, kinematic : 26 mm<sup>2</sup>/s  
at 40 °C



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Relative vapour density : >1  
(Air = 1.0)

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### **10. STABILITY AND REACTIVITY**

Conditions to avoid : Extremes of temperature and direct sunlight.

Materials to avoid : Strong oxidizing agents

Hazardous decomposition products : No decomposition products in case of appropriate storage / handling / transport.

Hazardous reactions :  
Stability:  
Stable

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### **11. TOXICOLOGICAL INFORMATION**

Skin irritation : Prolonged skin contact may cause skin irritation.

Eye irritation : slight irritation

Sensitisation : May cause sensitization by skin contact.

Further information : Oils/waste oils can have a harmful effect upon contact.

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### **12. ECOLOGICAL INFORMATION**

**Further information on ecology**

Adsorbed organic bound halogens (AOX) : not included

Other ecotoxicological advice : The product should not be allowed to enter drains, water courses or the soil.



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### **13. DISPOSAL CONSIDERATIONS**

Advice on disposal and packaging	:	Disposal: In accordance with local and national regulations.
EU Waste code: EWC	:	Waste Key (unused product) : 130206, synthetic engine, gear and lubricating oils  Waste key (used product) : 130206, synthetic engine, gear and lubricating oils
Disposal of uncleaned packaging	:	Waste key (uncleaned packaging) : 150110, packaging containing residues of or contaminated by dangerous substances

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### **14. TRANSPORT INFORMATION**

#### Land transport

##### **ADR**

Not dangerous goods

##### **RID**

Not dangerous goods

#### Air transport

##### **IATA**

Not dangerous goods

#### Sea transport

##### **IMDG**

Not dangerous goods

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### **15. REGULATORY INFORMATION**

Special labelling of certain mixtures

: Safety datasheet available on request for professional users.



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Sensitisation : Contains: alkyl acetamide, calcium sulphonate, Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs., May produce an allergic reaction.

Further information : Reserved for industrial and professional use.

VOC: : no VOC duties

Seveso Directive (96/82/EC) : Update: 2003  
Directive 96/82/EC does not apply

### National legislation

Water contaminating class (Germany) : WGK 2 water endangering

TA Luft List (Germany) : Type: Total dust  
not subject

Type: Inorganic substances in powdered form  
not subject

Type: Inorganic substances in vapour or gaseous form  
not subject

Type: Organic Substances  
not subject

Type: Carcinogenic substances  
not subject

Type: Mutagenic  
not subject

Type: Toxic to reproduction  
not subject



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Other regulations : Observe national used protectional regulations.

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### **16. OTHER INFORMATION**

#### **Full text of R-phrases referred to under sections 2 and 3**

R22	Harmful if swallowed.
R34	Causes burns.
R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.

#### **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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