

according to EC directive 91/155/EEC

Trade name: **ZF-Lifeguardfluid One** 

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

#### **Product information**

Trade name : ZF-Lifeguardfluid One Company : ZF Getriebe GmbH

Südring

66117 Saarbrücken Deutschland : +49 681 920 2721

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Contact person : Abteilung Technische Koordination MKTK

E-mail address : <u>aftersales-sbr@zf.com</u>

Emergency telephone number : +49 681 920-2222 (Plant medical service)

<u>Use</u>

Specific use(s) : Fuel additive

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

## **Hazardous components**

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
alkyl acetamide			Xi; R38 R43	20 - < 30
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.	61791-44-4	263-177-5	Xn; R22 C; R34 R43 N; R50	0,1 - < 1
calciumsulfonate			R43	0,1 - < 1
hydrocarbylsulfide, substituted			N; R51/53	0,1 - < 1

### 3. HAZARDS IDENTIFICATION

## Risk advice to man and the environment



Symbol(s) : Xi Irritant



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R-phrase(s) : R38 Irritating to skin.

R43 May cause sensitization by skin contact.

4. FIRST AID MEASURES

General advice : Remove from exposure, lie down.

In the case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

When symptoms persist or in all cases of doubt seek medical advice.

Never give anything by mouth to an unconscious person.

Take off all contaminated clothing immediately.

<u>Inhalation</u> : Remove to fresh air.

Keep patient warm and at rest. If symptoms persist, call a physician.

If breathing is irregular or stopped, administer artificial respiration.

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

Do NOT use solvents or thinners.

<u>Eye contact</u> : 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.

If a person vomits when lying on his back, place him in the recovery

position.

Do NOT induce vomiting.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2)

Foam Dry powder

Specific hazards during fire

fighting

Fire will produce dense black smoke containing hazardous

combustion products (see heading 10).

Do not use a solid water stream as it may scatter and spread fire.

Special protective equipment

for fire-fighters

Complete suit protecting against chemicals



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<u>Further information</u>: Standard procedure for chemical fires.

Exposure to decomposition products may be a hazard to health.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

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

<u>Personal precautions</u>: Refer to protective measures listed in sections 7 and 8.

Ventilate the area.

Avoid inhalation of vapour or mist.

Environmental precautions : Should not be released into the environment.

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.

### 7. HANDLING AND STORAGE

**Handling** 

<u>Advice on safe handling</u>: Avoid contact with skin and eyes.

Do not breathe vapours or spray mist. For personal protection see section 8.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Vapours are heavier than air and may spread along floors.

Dust explosion class : not applicable

**Storage** 

Requirements for storage

areas and containers

: Keep containers tightly closed in a dry, cool and well-ventilated place.

Store in original container.

Advice on common storage : Keep away from food, drink and animal feeding stuffs.

Incompatible with oxidizing agents.

German storage class : 10, Combustible liquids neither in Storage Class 3A nor 3B



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<u>Remarks</u>: No decomposition if stored and applied as directed.

**Other information** 

Water contaminating class

(Germany)

: WGK 2, water endangering

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

**Engineering measures** 

<u>General advice</u>: Provide adequate ventilation.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection

Material : Nitrile rubbe

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.

<u>Eye protection</u>: Please wear suitable protective goggles. Also wear face protection if

there is a splash hazard.

Skin and body protection : impervious clothing

<u>Hygiene measures</u> : When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

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

<u>Colour</u> : amber

Odour : mild

Safety data

**Density** 

pH : no data available

Explosive properties : Explosive properties according to the EU : Not explosive

Pour point : no data available

Melting point/range : no data available

Boiling point/range : no data available

Flash point : > 124 °C

<u>Autoignition temperature</u> : no data available

<u>Lower explosion limit</u> : no data available

<u>Upper explosion limit</u> : no data available

<u>Vapour pressure</u> : no data available

: 0,86 g/cm3 at 15,6 °C

Bulk density : no data available

Water solubility : insoluble

Viscosity, dynamic : no data available

<u>Viscosity, kinematic</u> : no data available

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

Materials to avoid : Incompatible with oxidizing agents.

<u>Hazardous decomposition</u>: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen



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products (NOx), dense black smoke.

Aldehydes

<u>Thermal decomposition</u>: Heating can release hazardous gases.

<u>Hazardous reactions</u> : General Information:

Hazardous polymerisation does not occur.

Stability:

Stable under recommended storage conditions.

#### 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat

Dose: > 5.000 mg/kg

Data from similar compositions

Acute dermal toxicity : LD50 rabbit

Dose: > 2.000 mg/kg

Data from similar compositions

Skin irritation : Prolonged skin contact may cause skin irritation and/or dermatitis.

Eye irritation : The liquid splashed in the eyes may cause irritation and reversible

damage.

Strong lachrymation can make it difficult to escape

<u>Sensitization</u>: May cause sensitization by skin contact.

<u>Further information</u>: May cause irritation of respiratory tract.

May cause irritation of the mucous membranes.

### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity effects**

Acute and prolonged toxicity for aquatic invertebrates

EC50 Species:

Dose: 100 - 1.000 mg/l

Remarks:

Toxicity data from individual values

### Further information on ecology

Adsorbed organic bound halogens (AOX)

not included



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

the soil.

#### 13. DISPOSAL CONSIDERATIONS

Advice on disposal and

packaging

Disposal:

In accordance with local and national regulations.

Disposal of uncleaned

packaging

Waste key (uncleaned packaging):

150110, packaging containing residues of or contaminated by

dangerous substances

#### **14. TRANSPORT INFORMATION**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

#### **15. REGULATORY INFORMATION**

## **Labelling according to EC Directives**

Hazardous components which must be listed on the label:

alkyl acetamide

Symbol(s) : Xi Irritant



R-phrase(s) : R38 Irritating to skin.

R43 May cause sensitization by skin contact.

S-phrase(s) : S 2 Keep out of reach of children.

S23 Do not breathe vapour.
S24 Avoid contact with skin.
S37 Wear suitable gloves.

S46 If swallowed, seek medical advice immediately

and show this container or label.



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S64

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S56 Dispose of this material and its container to

hazardous or special waste collection point. If swallowed, rinse mouth with water (only if the

person is conscious).

VOC: : no VOC duties

**National legislation** 

Water contaminating class

(Germany)

: WGK 2 water endangering

TA Luft : no data available

#### **16. OTHER INFORMATION**

#### R-phrases corresponding to the number shown in section 2:

R22 Harmful if swallowed.
R34 Causes burns.
R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

#### **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.