



SAFETY DATA SHEET

according to EC directive 91/155/EEC

Print Date: 05.03.2007

Revision Date : 12.09.2006

Version : 1.1

Trade name: **ZF-Lifeguardfluid 6**

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

Product information

Trade name : ZF-Lifeguardfluid 6
Company : **ZF Friedrichshafen AG**
Südring
66117 Saarbrücken
Deutschland
Telephone : +49 681 920 5145
Telefax : +49 681 920 131 5145
Contact person : MAPS 14
E-mail address : aftersales-sbr@zf.com
Emergency telephone number : +49 681 920-2222 (Plant medical service)

Use

Specific use(s) : Oil for 6-speed automatic car transmissions

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Mineral lubricants, Additives

Hazardous components

No dangerous ingredients according to Directive 2001/58/EC

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3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin.

Repeated contact may cause allergic reactions in very susceptible persons.

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.
Immediately flush eye(s) with plenty of water.
Seek medical advice.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.
Rinse mouth.
Ingest activated charcoal.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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- Extinguishing media which must not be used for safety reasons : High volume water jet
- Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see heading 10).
Exposure to decomposition products may be a hazard to health.
- Special protective equipment for fire-fighters : Complete suit protecting against chemicals
- 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.

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.

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

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Dust explosion class : not applicable

Storage

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

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

German storage class : 12, Non Combustible Liquids

Remarks : No decomposition if stored and applied as directed.

Other information

Water contaminating class (Germany) : WGK 2 , water endangering
VwVwS (German water pollution authority), appendix 2

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 gloves
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.

Eye protection : In case of splash hazard, wear protective goggles.

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Skin and body protection : Long sleeved clothing

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Colour : brown

Safety data

pH : not applicable

Flash point : 200 °C
Method: ISO 2592

Vapour pressure : < 0,001 hPa
at 20 °C

Solubility/qualitative : practically insoluble

Partition coefficient (n-octanol/water) :
not applicable

Viscosity, kinematic : 28 mm²/s
at 40 °C
Method: DIN 51562

10. STABILITY AND REACTIVITY

Materials to avoid : Strong oxidizing agents

Hazardous decomposition products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

Hazardous reactions :

Stability:
Stable under recommended storage conditions.

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11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD50 rat
Dose: > 2.000 mg/kg
- Skin irritation : Classification: Irritating to skin.
Prolonged skin contact may defat the skin and produce dermatitis.
- Further information : Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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.

13. DISPOSAL CONSIDERATIONS

- Advice on disposal and packaging : Disposal:
In accordance with local and national regulations.
- EU Waste code: EWC : Waste Key (unused product) :
130205, mineral-based non-chlorinated engine, gear and lubricating oils
- Waste key (used product) :
130205, mineral-based non-chlorinated engine, gear and lubricating oils
- Disposal of uncleaned packaging : Waste key (uncleaned packaging) :
150110, packaging containing residues of or contaminated by dangerous substances
- Remarks:
Empty remaining contents.
Empty containers should be taken to local recyclers for disposal.

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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

Additional advice : Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.
Sensitization : Contains: 2,2'-(Octadec-9-enylimino)bisethanol, calcium-sulphonate, May produce an allergic reaction.

VOC: : no VOC duties

National legislation

Water contaminating class (Germany) : WGK 2 water endangering
VwVwS (German water pollution authority), appendix 2

TA Luft : no data available

16. OTHER INFORMATION

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

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.