



## MATERIAL SAFETY DATA SHEET

### ZF-LIFEGUARDFLUID 8

#### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	ZF-Lifeguardfluid 8
<b>Product Code</b>	-
<b>Other Names</b>	-
<b>Product Use</b>	Gear oil
<b>Supplier Name</b>	ZF Services Australia Pty Ltd
<b>Address</b>	14 Lidco Street Arndell Park NSW 2148
<b>Telephone Number</b>	61 2 9679 5555
<b>Emergency Telephone</b>	0409 103 263

#### 2. HAZARDS IDENTIFICATION

**NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.**

Not classified as hazardous according to the criteria of Safe Work Australia.

<b>Hazards</b>	-
<b>Risk Phrases</b>	-
<b>Safety Phrases</b>	-

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Ingredient (common name)</b>	<b>CAS Number</b>	<b>Proportion</b>
Alkyl acetamide	Proprietary	2-<3%
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivatives	61791-44-4	0.2-<0.5%
Ingredients deemed not to be hazardous	Proprietary	To 100%

#### 4. FIRST AID MEASURES

<b>Inhalation</b>	If inhaled, remove to fresh air. Seek medical attention if symptoms occur.
<b>Ingestion</b>	If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
<b>Skin</b>	If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair thoroughly with soap and plenty of water. Seek medical attention if symptoms occur.
<b>Eyes</b>	If in eyes, hold eyelids apart and flush the eyes continuously with



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running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**  
**Hazardous Combustion Products**  
**Firefighting Equipment**  
  
**Unusual Fire or Explosion Hazards**  
**Hazchem Code**

For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.  
Water spray, water mist, dry powder, carbon dioxide or sand.  
**Unsuitable Extinguishing Media** - High volume water jet.  
Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.  
Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.  
Use water spray to cool unopened containers.  
  
Not allocated.

### 6. ACCIDENTAL RELEASE MEASURES

**Spills**

In the event of a major spill, prevent spillage from entering drains or water courses. Avoid subsoil penetration.  
Wear full protective clothing including eye/face protection and impervious elbow-length gloves. Evacuate general area and deny access to unnecessary and unprotected personnel. Ventilate area of leak or spill (especially in confined areas).  
Stop leak if safe to do so and contain spill. Absorb with an inert material (diatomaceous earth, vermiculite, sand, earth). Collect the material and place into clearly labeled containers for subsequent disposal.  
**Note:** Contaminated surfaces will be extremely slippery. Avoid accidents, clean up immediately.

### 7. HANDLING AND STORAGE

**Handling**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Provide adequate ventilation.  
Avoid formation of aerosol.

**Storage**

Store in a cool, dry, well-ventilated area. Keep in properly labelled containers. Keep containers tightly closed when not in use.  
Store away from oxidizing agents. Protect from heat.  
Storage temperature 0°C – 50°C.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Standards (Safe Work Australia)</b>	No exposure standards set.
<b>Engineering Controls</b>	Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.
<b>Respiratory Protection</b>	Not required except in case of aerosol formation. See Australian Standards AS/NZS 1715 and 1716 for more information.
<b>Eye Protection</b>	Safety glasses with top and side shields. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
<b>Skin Protection</b>	Nitrile rubber gloves and suitable protective work wear. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
<b>Hygienic Practices</b>	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Green liquid
<b>Odour</b>	Faint, hydrocarbon odour
<b>Solubility in Other Solvents</b>	Insoluble
<b>Boiling Point</b>	>280°C
<b>Melting Point</b>	-51°C (ISO 3016)
<b>Evaporation Rate (Air=1)</b>	No information available
<b>Vapour Pressure (kPa)</b>	<0.5 Pa @ 20°C
<b>Relative Vapour Density (Air=1)</b>	>1
<b>Bulk Density ( kg/m<sup>3</sup> )</b>	848
<b>Flash Point</b>	215°C
<b>Flammable Limit – Lower</b>	No information available
<b>Flammable Limit – Upper</b>	No information available
<b>Partition coefficient: n-octanol/water</b>	>6
<b>Viscosity, kinematic</b>	26 mm <sup>2</sup> /s @ 40°C

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Oxides of carbon and nitrogen and dense black smoke.



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**Hazardous Polymerization Conditions to Avoid** Will not occur  
Direct sunlight and temperature extremes.

### 11. TOXICOLOGICAL INFORMATION

**Routes of Exposure** Inhalation, ingestion, eye and skin

**Acute Health Effects** Inhalation: No adverse effects expected.  
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  
Eye: May cause slight eye irritation  
Skin: May cause skin irritation.

**Chronic Health Effects** May cause sensitization by skin contact.  
**Existing Conditions** No information available.  
**Aggravated by Exposure**  
**Carcinogenicity** No information available.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Do not discharge this material into waterways, drains and sewers.  
**Mobility** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Disposal methods and containers** Dispose according to applicable local and state government regulations.  
**Special precautions for landfill or incineration** Please consult your state Land Waste Management Authority for more information

### 14. TRANSPORT INFORMATION

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

**UN Number** Not applicable  
**Proper Shipping Name** Not applicable  
**Dangerous Goods Class** Not applicable  
**Hazchem Code** Not applicable  
**Packing Group** Not applicable  
**Special Precautions** Not applicable

### 15. REGULATORY INFORMATION

Ethanol, 2,2'-iminobis-, N-tallow alkyl derivatives, alkyl acetamide and calcium sulphonate are listed in the Australian Inventory of Chemical Substances (AICS).



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### 16. OTHER INFORMATION

**Last Revision of MSDS** Rev 1.0 (02/06/2011)  
**Prepared by** MSDS.COM.AU Pty Ltd [www.msds.com.au](http://www.msds.com.au)  
**Abbreviations Used** IARC: International Agency for Research on Cancer  
NTP: National Toxicology Program (U.S.)  
OSHA: Occupational Safety and Health Administration (U.S.)  
STEL: Short term exposure limit  
TWA: Time weighted average

#### Emergency Contacts

<b>ZF Services Australia Pty Ltd</b>	<b>61 2 9679 5555</b>
<b>ZF Services Australia Pty Ltd – Emergency Number</b>	<b>0409 103 263</b>
<b>Police and Fire Brigade</b>	<b>000</b>
<b>Poisons Information Centre</b>	<b>13 11 26</b>

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]