



MATERIAL SAFETY DATA SHEET

ZF-LIFEGUARDFLUID 6

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	ZF-Lifeguardfluid 6
Product Code	-
Other Names	-
Product Use	Oil for 6-speed automatic car transmissions
Supplier Name	ZF Services Australia Pty Ltd
Address	14 Lidco Street Arndell Park NSW 2148
Telephone Number	61 2 9679 5555
Emergency Telephone	0409 103 263

2. HAZARDS IDENTIFICATION

NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

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

Hazards	-
Risk Phrases	-
Safety Phrases	-

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Mineral lubricants, additives – Ingredients deemed not to be hazardous	Proprietary	100%

4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. Seek medical attention if symptoms occur.
Ingestion	If swallowed do NOT induce vomiting. Rinse mouth. Ingest activated charcoal. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin	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.
Eyes	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.



MATERIAL SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous Combustion Products	Unsuitable Extinguishing Media - High volume water jet. Oxides of carbon and nitrogen and dense black smoke.
Firefighting Equipment	Exposure to decomposition products may be a health hazard. Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Non combustible liquid.
Hazchem Code	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 containers tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	No exposure standards set.
Engineering Controls	Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.



MATERIAL SAFETY DATA SHEET

Respiratory Protection	Not required except in case of aerosol formation. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Safety glasses with top and side shields. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
Skin Protection	Nitrile rubber gloves and suitable protective work wear. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
Hygienic Practices	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

Appearance	Brown liquid
Odour	No information available
Solubility in Water	Practically insoluble
Boiling Point	No information available
Melting Point	No information available
Evaporation Rate (Air=1)	No information available
Vapour Pressure (kPa)	0.001hPa @ 20°C
Vapour Density (g/cm³)	No information available
Specific Gravity (kg/m³)	No information available
Flash Point	>200°C (ISO 2592)
Flammable Limit – Lower	No information available
Flammable Limit – Upper	No information available
Auto-ignition Temperature	Not applicable
Viscosity, kinematic	28 mm ² /s @ 40°C (DIN 51562)

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Oxides of carbon and nitrogen and dense black smoke.
Hazardous Polymerization	Will not occur.
Conditions to Avoid	No information available.

11. TOXICOLOGICAL INFORMATION

Toxicity	Oral LD ₅₀ (rat) > 2000 mg/kg
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.



MATERIAL SAFETY DATA SHEET

Eye: No adverse effects expected.
Skin: Irritating to skin.

Chronic Health Effects Repeated or prolonged contact with the preparation may cause de-fatting of the skin and dermatitis.
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

2,2'-(Octadec-9-enylimino) bisethanol and calcium-sulphonate are listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (02/06/2011)
Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au



MATERIAL SAFETY DATA SHEET

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

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

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. ZF Services Australia Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.

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)]