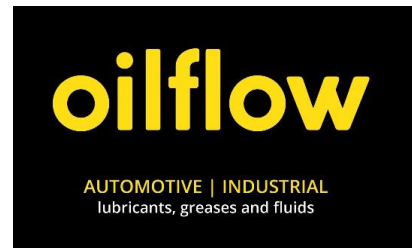


PO Box 14527, Wadeville 1422
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www.oilflow.co.za
Sasol code: 303247



MATERIAL SAFETY DATA SHEET

Fleetline Brake Fluid Dot 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	FLEETLINE BRAKE FLUID DOT 3
Manufacturer/Supplier	OILFLOW cc 562 Crocker Road, Wadeville, Germiston, South Africa 1422
Health Emergency Telephone	011 827 5848
Oilflow Website:	www.oilflow.co.za

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Hazardous Components in Product

Polyethylene Glycols, Polyglycol Ethers, and Glycol Ether Esters	100%
With added corrosion and oxidation inhibitors	

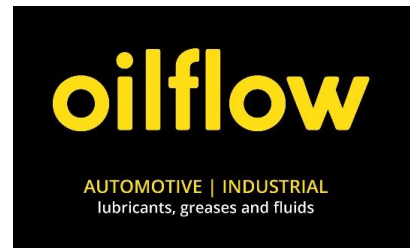
3. HAZARD IDENTIFICATION

Warning Statements	Harmful or fatal if swallowed. Keep out of reach of children. May cause irritation
Eyes	May cause eye irritation
Oral	Expected to have moderate acute toxicity by ingestion. Liver and/or kidney damage have been reported to occur following Significant overexposures.
Inhalation	Irritation of the nose, throat and lungs, headache, nausea, drowsiness, dizziness or unconsciousness may result from exposure to vapours or mists present in poorly ventilated or confined areas or generated from spraying or heating the material.
Skin	Expected to cause no more than minor skin irritation. Prolonged or frequently repeated contact may cause more severe irritation or may cause the skin to become cracked or dry from the defatting action of this material.
Long Term Toxic Effects	Contains a solvent that may cause adverse systemic effects when ingested, inhaled, or absorbed through the skin.



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4. FIRST AID MEASURES

First Aid – Eyes	Flush eyes immediately with fresh water for several minutes while holding the eyelids open. If irritation persists, see a doctor.
First Aid – Skin	Remove and launder contaminated clothing, including shoes. Wash skin thoroughly with soap and water. See a doctor if any signs or symptoms described in this MSDS occur.
First Aid – Ingestion	If swallowed and person is conscious, give water or milk to drink and seek prompt medical advice. DO NOT make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, take the person with product container and label to the nearest medical emergency treatment centre or hospital. Never give anything by mouth to an unconscious person.
First Aid – Inhalation	if there are signs or symptoms as described in this MSDS due to breathing this material, move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor.
Advice to Doctor	Non-Applicable.

5. FIRE FIGHTING MEASURES

Ignition Temp (degrees C)	>300
Flammable Limits (% By volume)	Not Determined
Flash Point (degrees C)	>134 (PMCC)
Fire Extinguishing Agents	According to the US National Fire Protection Association Guide use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. IF a leak or spill has not ignited, use water spray to disperse the vapours and to provide protection for persons attempting to stop the leak.
Explosion Hazards	For fires involving this material, do not enter any enclosed or Confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Material can create slippery conditions underfoot.
Environmental Precautions	Try to prevent the material from entering drains or watercourses.
Spillages	Contain and absorb using diatomaceous earth or other inert material. Transfer into suitable containers for disposal.



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7. HANDLING AND STORAGE

Handling	No special precautions are required.
Storage	Storage temperature should be controlled to between 1 and 40°C. Where outside storage of drums is unavoidable, they should be stored horizontally to avoid ingress of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes	Avoid eye contact. The wearing of chemical safety goggles or face shield is recommended.
Skin	Avoid contact with skin or clothing. Skin contact can be minimized by wearing impervious protective clothing including gloves. Protective clothing made from neoprene, nitrile, or n-butyl rubber is suitable in these applications.
Inhalation	None Required. However, an approved respirator is recommended if operating conditions generate vapour, mists or fumes, and if exposure cannot adequately be controlled by local exhaust ventilation. Wear approved respiratory protection such as a toxic dust, mist or fume respirator.
Ventilation	No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, engineering controls may be needed. Local exhaust ventilation and/or enclosure of the process is preferred in these cases.
Exposure Limits	None established for product.

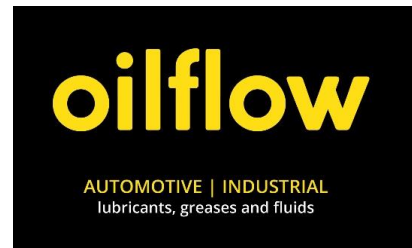
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odour	Colourless to amber liquid
Boiling Point °C	>205
Vapor Pr (mmHg@ 25°C)	Low
Density (kg/l at 20°C)	1,05
Vapor Density	Not Determined
pH of Undiluted Product	7-11
Solubility (water)	Soluble
Percent volatile by Volume	Not Determined
Evaporation	Not Determined
Viscosity @100°C	2mm ² /s



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10. STABILITY AND REACTIVITY

Hazardous Polymerizations
Products of Combustion

Do not Occur

Carbon monoxide and carbon dioxide may be formed on burning in limited air supply.

Conditions to Avoid

Strong oxidizers such as chlorates, nitrates, peroxides, etc.

11. TOXICOLOGICAL INFORMATION

General

This product contains polyalkylene glycols, polyalkylene glycol ethers, and ether esters. Reported effects include kidney damage from high doses or from prolonged or repeated exposure. While normal use of this material should not result in any adverse effects, we strongly recommend that the precautions outlined in this MSDS be followed to reduce skin contact and keep potential inhalation of mists to a minimum.

12. ECOLOGICAL INFORMATION

Environmental Effects

This product is expected to have a moderate (>30%) rate of biodegradation, and a low potential to bio accumulate.

13. DISPOSAL

Waste Disposal

Check governmental regulations and local authorities for approved

Disposal of this material.

Remarks

Releases of this product should be prevented from contaminating soil, and from entering drainage, sewer systems, and all bodies of water.

14. TRANSPORT INFORMATION

Un Class

Not Applicable

DGC

Not Applicable

Proper Shipping Name

Not Applicable



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Hazchem Code
Additional Information

Not Applicable
None Determined

15. REGULATORY INFORMATION

Respirator

Respirators must follow AS/NZS 1715/1716 standard for approved respirators.

Information
NIOSH/MSHA, UK

In the absence of local approved authorities, follow US BSI, or joint Australia – New Zealand A/NZS 1715/1716

16. OTHER INFORMATION

MSDS First Issued
MSDS Data Revised
Product Use

01 May 2011
01 May 2020
Brake fluid.

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.

PREPARED BY:

TECHNICAL SERVICES

