

Material Safety Data Sheet

1. Identification of Preparation and Company

Product Brake Fluid Dot 4 ESP

Company Granville Oil & Chemicals Ltd
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Goldthorpe Industrial Estate
Goldthorpe
Rotherham
South Yorkshire S63 9BL
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2. Composition & Information on Ingredients

NAME			CONTENT
CAS No.:	EINECS Nr.:	CLASSIFICATION	
TRIETHYLENE GLYCOL 112-27-6	203-953-2	- Not classified.	1-5%
2-(2-(2-butoxy ethoxy) ethoxy) ethanol 143-22-6	205-592-6	- Not classified.	1-5%
2-(2-(2-Methoxy ethoxy) ethoxy) ethanol 112-35-6	204-247-7	- Not classified.	10-30%
2,2'-OXYBISETHANOL 111-46-6	203-872-2	Xn R-22	1-5%

The Full Text for all R-Phrases are Displayed in Section 16

CAS No: Preparation

COMPOSITION COMMENTS: Glycols/Glycol Ether and Alkyl Esters

3. Hazards Identification

Ingestion may cause nausea or vomiting. Frequent or prolonged contact may cause dermatitis.

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4. First Aid Measures

INHALATION:	Remove victim immediately from source of exposure. Place unconscious person on the side in the recovery position and ensure breathing. Keep the affected person warm and
INGESTION:	DO NOT INDUCE VOMITING! When risk of unconsciousness, place and transport the victim in secured side position. Get medical attention if any discomfort continues.
SKIN:	Remove affected person from source of contamination. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.
EYES:	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5. Fire Fighting Measures.

EXTINGUISHING MEDIA

Small fires: Use: Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.
Larger fires. Fire can be extinguished using: Alcohol resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

6. Accidental Release Measures

PRECAUTIONS TO PROTECT ENVIRONMENT

Protect drains by covering to avoid any spillage entering the drainage system.

SPILL CLEANUP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Flush area with flooding amounts of water. Disposal should be carried out in accordance with the Controlled Waste Regulations. If any liquid enters the drainage system or watercourse inform the Local Authorities, Fire Brigade and Environmental Agency.

7. Handling and Storage

USAGE PRECAUTIONS:	Avoid spilling, skin and eye contact. Avoid production of oil mists
USAGE DESCRIPTION:	Do not mix with nitrites or other nitrosating agents because a nitrosamine may be formed - may cause cancer.
STORAGE PRECAUTIONS:	Keep in cool, dry, ventilated storage and closed containers. Keep in original container.

8. Exposure Controls / Personal Protection

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
TRIETHYLENE GLYCOL	112-27-6	OES	5 mg/m3 (Oil mist)	
2-(2-(2-butoxy ethoxy) ethoxy) ethanol	143-22-6		No std.	No std.
2-(2-(2-Methoxy ethoxy) ethoxy)	112-35-6		No std.	No std.
2,2'-OXYBISETHANOL	111-46-6	OES	23 ppm	No std.
BRAKE FLUID DOT 4	Preparation	OES	5 mg/m3 (Oil mist)	

INGREDIENT COMMENTS: OES = Occupational Exposure Standard. Suggested OES only.

PROTECTIVE EQUIPMENT



VENTILATION: Provide adequate general and local exhaust ventilation

PROTECTIVE GLOVES: Use protective gloves.

EYE PROTECTION: Use approved safety goggles or face shield.

OTHER PROTECTION: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENIC WORK PRACTICES: DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly

9. Physical and Chemical Properties

APPEARANCE:	Liquid.		
COLOUR:	Clear. Amber		
ODOUR/TASTE:	Ammonia.		
BOILING POINT (°C, interval):	-270-@1013hPa	Pressure:	
DENSITY/SPECIFIC GRAVITY (g/l):	1.05	Temperature (°C):	20/20
VAPOUR DENSITY (air=1):	-- 5		
VAPOUR PRESSURE:	< 0.01 h Pa	Temperature (°C):	20
EVAPORATION RATE:	< 0.01	Reference:	BuAc=1
SOLUBILITY DESCRIPTION:	Soluble in: Alcohol. Soluble in water.		
ODOUR THRESHOLD, LOWER:	Not determined		
ODOUR THRESHOLD, UPPER:	Not determined		
FLASH POINT (°C):	> 121	Method:	PM Closed Cup
AUTO IGNITION TEMP. (°C):	Not determined		

10. Stability and Reactivity

STABILITY	No particular stability concerns.
CONDITIONS TO AVOID	Avoid excessive heat for prolonged periods of time.
HAZARDOUS DECOMP. PRODUCTS	Fire creates: Carbon monoxide (CO). Carbon dioxide (CO ₂).

11 Toxicological Information

TOXICOLOGICAL INFORMATION:	No data available
HEALTH WARNINGS:	Ingestion may cause: Stomach pain. Diarrhoea

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12 Ecological Information

ECOLOGICAL INFORMATION

Not regarded as dangerous for the environment.

13 Disposal Considerations

DISPOSAL METHODS

This material must be disposed of via an Authorised Waste/Disposal Company in accordance with Local and or National Waste Disposal Regulations.

WASTE CLASS:

This material must be disposed of as a CONTROLLED WASTE.

14. Transport Information

GENERAL:

Low hazard material not considered dangerous for carriage.

UN No. ROAD:

None

ADR CLASS :

Not classified for transportation

ADR ITEM No:

None

HAZCHEM CODE:

(Suggested 22)

CEFIC TEC(R) No.:

None

PROPER SHIPPING NAME;

None

ROAD TRANSPORT

Not classified

RAIL TRANSPORT NOTES:

Not classified

IMDG CLASS:

None

EmS No:

None

MARINE POLLUTANT:

N/A

SEA TRANSPORT NOTES:

Not classified

ICAO CLASS:

None

AIR TRANSPORT NOTES:

Not classified

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15 Regulatory Information

RISK PHRASES:	Not classified
SAFETY PHRASES:	S-2 Keep out of reach of children. S-28 After contact with skin, wash immediately with plenty of water. S-29 Do not empty into drains. S-37 Wear suitable gloves. S-43,16 In case of fire use sand, earth, alcohol resistant foam or water fog.
UK REGULATORY REFERENCES:	The Control of Substances Hazardous to Health Regulations 1988. Health and Safety at Work Act 1974. The Chemical (Hazard Information and Packaging for Supply Regulations) 1993 amended & 2002.
EU DIRECTIVES:	Dangerous Substance Directive 67/548. Dangerous Preparations Directive 88/379.
STATUTORY INSTRUMENTS:	Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.
APPROVED CODE OF PRACTICE:	Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations L62.
GUIDANCE NOTES	Occupational Exposure Limits EH40.

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16 Other Information

INFORMATION SOURCES:	Fire and Related Properties of Industrial Chemicals, Fire Protection Association.
REVISION COMMENTS	New issue. CHIP 3 UPDATE
R-PHRASES (Full Text)	R-36 irritating to eyes. Not classified. R-22 Harmful if swallowed.

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