



DOT 4 Brake & Clutch Fluid

This product is not considered Hazardous according to criteria of "Worksafe Australia"

Product Name	"DOT 4 Brake & Clutch Fluid"	UN Number:	N/A
		Dangerous Goods Class:	N/A
		Subsidiary Risk:	N/A
		Hazchem Code:	N/A
		Poisons Schedule:	N/A
		N/A = Not applicable	

Use: Hydraulic Brake & Clutch Fluid

Physical Description/Properties

Appearance:	Green Viscous Coloured Liquid
Boiling Point:	278°-280°C
Vapour Pressure:	Not Available
Specific Gravity:	1.07 @ 20°C
Flashpoint	145°
pH (neat)	7.5
Solubility in Water:	Miscible
Flammability Limits:	Not Available
% Volatile by Volume	80 max
Viscosity 920°C)	5cP

Ingredients

CHEMICAL ENTITY	PROPORTION
Glycol ether borate ester	>60%
Polyethylene glycol ether	10-29%
Corrosion inhibitors	<1%
Other Additives	<1%





Health Hazard Information

Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label where applicable. Symptoms that may arise if the product is mishandled are:

Swallowed:

Initial symptoms following a large dose (>100ml) are those of alcohol intoxication progressing to vomiting, headache, stupor, convulsions and unconsciousness. Respiratory system involvement may occur 12-24 hours after ingestion. Symptoms may include hyperventilation and rapid shallow breathing. Death may occur from respiratory failure or pulmonary oedema.

Eye:

May cause slight irritation.

Skin:

Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhaled:

Inhalation of vapour can result in headaches, dizziness, possible nausea and irritation to the respiratory tract, experienced as nasal discomfort and discharge with chest pain and coughing.

First Aid Procedures

Swallowed:

Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give more water.
Seek medical advice.

Eye:

Immediately hold open eyes open and flush with water continuously for at least 15 minutes.
Seek medical attention.

Skin:

Remove all contaminated clothing and wash affected area with plenty of water and soap. If irritation occurs seek medical advice.

Inhaled:

Remove from further exposure, avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Advice to Doctor

Treat symptomatically. Following ingestion this product is likely to hydrolyse to form a polyglycol ether and boric acid.
For polyglycol ethers: Blockade of alkoxyacetic acid metabolite may follow competitive inhibition of alcohol dehydrogenase with ethanol or 4- methylpyrazole. Maintain a plasma ethanol level of 100 to 150 mg/dl
For Boric acid: There is no specific antidote. Treat symptomatically.

Precaution for Use

Exposure Limits

None assigned by the National Health & Medical Research Council.

Engineering Controls

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use

Personal Protection

Wear overalls, safety shoes, safety glasses, impervious gloves (short). Avoid eye contact and repeated or prolonged skin contact. Always wash hands before smoking, eating or going to the toilet.





Safe Handling Information

Storage & Transport

Avoid contamination, which could result in, brake system failure during use. Keep containers dry and closed at all times, as material is hygroscopic and may absorb moisture from the air. Store away from oxidising agents.

Classified as a C1 (Combustible liquid) for the purpose and handling in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

Poisons Schedule (AUST) / Toxic Substance.

Not classified as Dangerous Goods by the criteria of the Australia Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Spills & Disposal

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Contain – prevent run off into drains and waterways.

Use

Absorbent (soil, sand or other inert material). Collect and seal in properly labeled drums for Disposal. Wash area down with excess water.

Refer to State Land Waste Management Authority.

Fire & Explosive Hazard

Combustible liquid. Fire fighters to wear self – contained breathing apparatus if risk of Exposure to vapour or products of combustion.

Extinguishing Media

Use water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry Chemical powder).

Other Information

The information presented herein is true and accurate to the best of our knowledge, but without guarantee unless explicitly given. Since the conditions of use are beyond our control, we disclaim any liability including for patent infringement incurred in connection with the use of these products, data or suggestions.

REFERENCE:

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Where the information provided in this bulletin indicates a potential hazard, adequate warning should be given to all





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