

MATERIAL SAFETY DATA SHEET

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Date of Issue: October 2006

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia.

COMPANY DETAILS

Company: Oiltech Australia Pty. Limited
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Emergency Telephone number: (03) 9553 2544, 24 hours

PRODUCT: Fyrquel 300

Identification:

Other Names:	Phosphate ester	Manufacturers Product Code:	None given
UN number:	Not Applicable	Dangerous Goods Class:	9
Hazchem Code:	Not applicable	Subsidiary Risk:	None allocated
Poisons Schedule Number:	Not applicable		
Use:	Fire resistant hydraulic fluid		

Physical Description/Properties

Appearance:	pale yellow liquid, low odour
Boiling Point:	416°C
Vapour Pressure:	<0.1 mm Hg at 38.7°C
Specific Gravity:	1.15
Flashpoint:	246°C P.M.C.C.
Flammability Limits:	Not flammable
Solubility in Water:	<1 g/L

Other Properties:

Viscosity	68 cSt at 40°C
Pour Point	-18°C

Ingredients:

Chemical Name:	CAS Number:	Proportion:
Triphenyl phosphate	115-86-6	<15%
Butylated triphenyl phosphate ester	-	> 85%

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HEALTH HAZARD INFORMATION

Health Effects:

Acute:

Swallowed: Oral LD 50 (male & female rats) - >5000mg/Kg

Eye: Mild irritant to rabbit eyes

Skin: LD 50 (rabbits) - >2000 mg/Kg

Inhaled: LC 50 (male & female rats) - >3.1 mg/L

Chronic: See "Further Notes"

First Aid:

Swallowed: Immediately give several glasses of water and induce vomiting by gagging using a finger placed on the back of the victims tongue. Give fluids until the vomitus is clear. Seek immediate medical attention. If victim is unconscious or convulsive, do not induce vomiting or give anything by mouth.

Eye: Flush with running water for 15 minutes, holding the eyelid(s) open. Seek medical attention if eye irritation occurs.

Skin: Wash affected area with soap and water. Remove contaminated clothing. Seek medical attention if skin irritation occurs.

Inhaled: Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

First Aid Facilities: Eyewash bath, demand-type or continuous flow oxygen inhaler.

Advice to Doctor: Exposure to this product may cause cholinesterase inhibition. If suspected, atropine by injection is antidotal. Protapam chloride is also antidotal when administered early and in conjunction with atropine.

PRECAUTIONS FOR USE

Exposure Standards: No TLV has been established for this product.

Engineering Controls: local exhaust ventilation, enclosed system design, process isolation. Use appropriate personal hygiene. If use conditions generate airborne aerosols, the material should be handled in an open or well ventilated area.

Personal Protection: Chemical resistant gloves, chemical splash goggles, long-sleeved clothing, NIOSH approved organic vapour respirator with dust, mist and fume filters for fire-fighters.

Flammability: The product may support combustion in a fire, but is self-extinguishing once the source of ignition is removed.

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SAFE HANDLING INFORMATION

Storage and Transport: Store in a cool, dry, well ventilated area away from flammable materials and sources of heat or flame. Exercise due caution to prevent damage to or leakage from the container. Prolonged storage at elevated temperatures under weak alkaline conditions should be avoided.

Spills and Disposal: Soak up spilt liquid with sand or absorbent material and remove to a chemical waste container for disposal. Wash the area down with a detergent powder/water slurry using a stiff broom, then flush with water. Liquid or solid waste should be disposed according to local regulations.

Fire/Explosion Hazard: Not explosive. Fire extinguishing media - water spray, dry chemical, CO₂. Use standard fire fighting techniques, using full-face, self-contained breathing apparatus and impervious protective clothing. Hazardous decomposition products - phosphoric oxides irritating to the respiratory tract, which may cause breathing difficulty and pulmonary oedema.

FURTHER NOTES:

Ingestion data: A single dose of 5000 mg/Kg in male & female rats produced a mild to moderate decrease in physical activity, severe diarrhoea, stains on fur, and no mortality. Daily ingestion of 100, 400 or 1600 ppm in the diet of rats for 3 months produced increases in the absolute and relative mean weights of livers and adrenal glands in females and the livers of males at the 1600 ppm dose level. Microscopic pathological changes were not observed. No significant biological effect was observed at the 400 ppm dose level.

Neurotoxicity data: The product when administered orally (11.7g/Kg) to hens, produced a significant inhibition of hen plasma cholinesterase but did not inhibit hen brain neurotoxic esterase. The product when administered twice orally (11.7 k/Kg) with a three week interval between doses, did not produce any evidence of acute, delayed neurotoxicity in hens.

Mutagenicity/Carcinogenicity data: The product was examined for mutagenic activity in a series of in vitro microbial assays employing five different strains of Salmonella indicator organisms with and without metabolic activation. The product did not demonstrate mutagenic activity in these assays.

The product was examined in a Mouse Lymphoma Forward Mutation Assay with no increase in the rates of chromosome aberrations or sister chromatid exchange.

Human Health data: There is no data available which addresses signs and symptoms of exposure, the effects of long term exposure or any medical conditions that are generally recognized as being aggravated by exposure to this product. However, triphenyl phosphate, present in the product, has been reported to be a cholinesterase inhibitor.

CONTACT POINT: Laboratory Manager, Telephone (03) 9553 2544

The information contained herein is considered to be correct but should only be taken as a guideline. No guarantee or warranty is expressed or implied for the product described and we assume no responsibility for its use.