



# Safety Data Sheet

## Hydraulic Fluid FR 32

Version 1.00

Revision Date 28.10.2016

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

**Product identifier**

**Trade name**

Hydraulic Fluid FR 32

**Synonyms**

Fire Resistant Hydraulic Fluid

**Relevant identified uses of the substance or mixture and uses advised against**

**Use**

Lubricant or lubricant additive

**Manufacturer or supplier's details**

**Company**

Sasol Oil Pty (Ltd)

**Address**

32 Hill Street  
Randburg  
2194  
South Africa

**Telephone**

+27860335444

**E-mail address**

sasolchem.info.Rosebank@sasol.com

**Emergency telephone number**

+44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

+44(0)1235 239 671 (Middle East, Arabic African countries)

+65 3158 1074 (Asia Pacific)

+86 10 5100 3039 (China)

+27 (0)17 610 4444 (South Africa)

+61 (2) 8014 4558 (Australia)

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### SECTION 2. Hazards identification

#### Classification of the substance or mixture

South Africa. GHS Classification and Labelling of Chemicals - SANS 10234		
Classification	Reproductive toxicity	Category 2
	Specific target organ toxicity - repeated exposure	Category 2
	Hazardous to the aquatic environment - chronic hazard	Category 2

#### Label elements

South Africa. GHS Classification and Labelling of Chemicals - SANS 10234

#### Pictogram



#### Signal word

Warning

#### Hazard statements

H373: May cause damage to organs through prolonged or repeated exposure if swallowed.  
H361: Suspected of damaging fertility or the unborn child if swallowed.  
H411: Toxic to aquatic life with long lasting effects.

#### Precautionary statements

#### Prevention

P201: Obtain special instructions before use.



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P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273: Avoid release to the environment.

P281: Use personal protective equipment as required.

#### Response

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P308 + P313: IF exposed or concerned: Get medical advice/ attention.

#### Storage

P403: Store in a well-ventilated place.

#### Disposal

Dispose of contents/container in accordance with local regulation.

#### Other hazards

No data available

## SECTION 3. Composition/information on ingredients

#### Mixture

##### Phenol, isopropylated, phosphate (3:1)

Contents:  $\geq 50.00$  -  $\leq 100.00$  %W/W

CAS-No. 68937-41-7

Index-No.

EC-No. 273-066-3

##### 2,6-di-tert-butyl-4-methylphenol

Contents:  $\geq 0.25$  -  $\leq 2.50$  %W/W

CAS-No. 128-37-0

Index-No.

EC-No. 204-881-4

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For the full text of the H-Statements mentioned in this Section, see Section 16.

#### SECTION 4. First aid measures

##### Description of necessary first-aid measures

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. For thermal burns, cool affected areas as quickly as possible by immersing in water. Consult a physician.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately. If burns occur, treat as thermal burns.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this SDS. Do not induce vomiting. Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.

##### Most important symptoms/effects, acute and delayed

Refer to SECTION 11

#### SECTION 5. Firefighting measures



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<b>Suitable extinguishing media</b>	Water spray. Foam. Dry powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Special hazards arising from the substance or mixture</b>	Do not allow run-off from fire fighting to enter drains or water courses.
<b>Special protective equipment for firefighters</b>	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### SECTION 6. Accidental release measures

<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist.
<b>Environmental precautions</b>	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material and dispose of as hazardous waste.
<b>Reference to other sections</b>	Refer to Section 8 and 13

#### SECTION 7. Handling and storage

<b>Safe handling advice</b>	Ensure adequate ventilation. Do not breathe vapours or spray mist. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Wear personal protective equipment.
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- Advice on protection against fire and explosion** Keep away from open flames, hot surfaces and sources of ignition.
- Requirements for storage areas and containers** Keep containers tightly closed in a cool, well-ventilated place.
- Advice on common storage** Keep away from oxidizing agents, and acidic or alkaline products.

### SECTION 8. Exposure controls/personal protection

#### Components with workplace control parameters

##### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
2,6-DI-TERT-BUTYL-P-CRESOL	TWA	10 mg/m3	1995	South Africa RELs

#### Exposure controls

##### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

##### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Gloves suitable for permanent contact:  
Material: butyl-rubber  
Break through time: 4 h

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Material thickness: 0.5 mm

<b>Eye protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Safety shoes. Lightweight protective clothing. Use protective skin cream before handling the product.
<b>Hygiene measures</b>	Wash hands immediately after handling the product.

### SECTION 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid; at 20 ° C; 1,013 hPa
<b>Colour</b>	Amber
<b>Odour</b>	Slight
<b>Odour Threshold</b>	No data available
<b>pour point</b>	-23.33 ° C; ASTM D97
<b>Boiling point/boiling range</b>	401 ° C
<b>Flash point</b>	225 ° C; ASTM D 93
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	0.108 hPa; 20 ° C
<b>Relative vapour density</b>	No data available

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Density	0.857 g/cm <sup>3</sup> ; ASTM D4052
Water solubility	Partly miscible, Partly soluble
Viscosity, kinematic	32 mm <sup>2</sup> /s; ASTM D 445

### SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Strong acids and oxidizing agents
Conditions to avoid	Keep away from open flames/hot surfaces. - No smoking.
Materials to avoid	Strong acids and oxidizing agents
Hazardous decomposition products	Carbon oxides. Hydrocarbons.

### SECTION 11. Toxicological information

Acute oral toxicity	2,6-di-tert-butyl-4-methylphenol: LD50 Rat: 2,930 - 6,000 mg/kg;
Acute inhalation toxicity	Phenol, isopropylated, phosphate (3:1): LC50 Rat: 60 min; 200 mg/l;
Acute dermal toxicity	Phenol, isopropylated, phosphate (3:1): LD50 Rabbit: 10,000 mg/kg;
Acute dermal toxicity	2,6-di-tert-butyl-4-methylphenol:





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LD50 Rat: 2,000 mg/kg;

**Repeated dose toxicity** Phenol, isopropylated, phosphate (3:1):  
Rat; NOAEL 25 mg/kg

**Repeated dose toxicity** 2,6-di-tert-butyl-4-methylphenol:  
Oral Rat; NOAEL 25 mg/kg LOAEL 100 mg/kg

## SECTION 12. Ecological information

<b>Toxicity to fish</b>	Phenol, isopropylated, phosphate (3:1): Fish; 4 d; LC50; 1.6 - 50.1 mg/l;
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Phenol, isopropylated, phosphate (3:1): 48 h; LC50; 1.5 - 1,000 mg/l
<b>Toxicity to algae</b>	Phenol, isopropylated, phosphate (3:1): Chlorella pyrenoidosa (aglae)4 d; EC50; 2.5 mg/l;
<b>Toxicity to algae</b>	Phenol, isopropylated, phosphate (3:1): Anabaena flos-aquae (cyanobacterium)72 h; EC50; 2.5 - 1,000 mg/l;
<b>Toxicity to bacteria</b>	2,6-di-tert-butyl-4-methylphenol: 24 h; EC50; 1.7 mg/l

## SECTION 13. Disposal considerations

**Product** Dispose of in accordance with local regulations.

## SECTION 14. Transport information

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### Further Information

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15. Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>Registration, Evaluation and Authorisation of Chemicals (REACH)</b>	All chemical constituents are listed in: Registration, Evaluation and Authorisation of Chemicals (REACH) (See chapter 3)
<b>Inv. of Exist. Chem. Substances in China</b>	All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China (See chapter 3)
<b>USA TSCA Inventory</b>	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
<b>Canadian Domestic Substances List (DSL)</b>	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
<b>Australian Inv. of Chem. Substances (AICS)</b>	<b>Components Not listed</b> Tri(t-butylphenyl) phosphate
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	<b>Components Not listed</b> t-Butylphenyl diphenyl phosphate Bis(t-butylphenyl)phenyl phosphate
<b>Jap. Inv. of Exist. &amp; New Chemicals (ENCS)</b>	<b>Components Not listed</b> t-Butylphenyl diphenyl phosphate Bis(t-butylphenyl)phenyl phosphate
<b>Japan. Industrial Safety &amp; Health Law (ISHL)</b>	<b>Components Not listed</b> Bis(t-butylphenyl)phenyl phosphate



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<b>Korea. Existing Chemicals Inventory (KECI)</b>	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
<b>China Inv. Existing Chemical Substances (IECSC)</b>	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

### SECTION 16. Other information

#### Full text of H-Statements

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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