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# Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: FIRE RESISTANT HYDRAULIC OIL FR 46

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: PC17: Hydraulic fluids.

# 1.3. Details of the supplier of the safety data sheet

Company name: Premier Lubricants Ltd

Little Row

Fenton Ind Estate Stoke-on-Trent

ST4 2SQ

Tel: +44 1782 410381 Fax: +44 1782 410684

Email: info@premierlubricants.co.uk

# 1.4. Emergency telephone number

Tel: +44 1782 410381

**Opening Hours:** 09:00 - 17:00

# Section 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

#### 2.2. Label elements

Label elements: This product has no label elements.

# 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

# Section 3: Composition/information on ingredients

# 3.2. Mixtures

#### Hazardous ingredients:

2,2'-OXYBISETHANOL - REACH registered number(s): 01-2119457857-21

EINECS	CAS	PBT / WEL	CLP Classification	Percent
203-872-2	111-46-6	-	Acute Tox. 4: H302	30-50%

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#### OCTANOIC ACID, COMPOUND WITH 2,2',2"-NITRILOTRIETHANOL

245-327-1	22919-56-8	-	Skin Irrit. 2: H315; Eye Irrit. 2: H319	1-10%
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#### Section 4: First aid measures

# 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation persists, obtain medical advice.

Eye contact: Bathe the eye with running water for 15 minutes.

**Ingestion:** Do not induce vomiting. Wash out mouth with water and obtain medical attention. Treat symptomatically. If aspiration is suspected, obtain immediate medical attention.

# 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** Occasional contact with undiluted product is unlikely to cause any significant reaction.

Prolonged contact with undiluted product may cause defatting of skin barrier, leading to cracking and soreness.

**Eye contact:** Eye contact with product may cause irritation and stinging. There may be a potential to cause corneal injury if treatment is not prompt.

**Ingestion:** There may be mental confusion. May cause dizziness. Nausea and stomach pain may occur. There may be vomiting. There may be loss of consciousness. Convulsions may occur.

**Inhalation:** The product is unlikely to present any significant hazard at ambient temperatures.

**Delayed / immediate effects:** Headaches or general malaise may result. Nausea and stomach pain may occur.

Damage to liver and kidneys may develop later.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Not applicable.

#### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide.

Dry chemical powder. Alcohol resistant foam.

# 5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes. See section 10.

#### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

# Section 6: Accidental release measures

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# 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

#### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

#### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

#### Section 7: Handling and storage

# 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in dry conditions between 0 and 40 ℃.

# 7.3. Specific end use(s)

Specific end use(s): PC17: Hydraulic fluids.

# Section 8: Exposure controls/personal protection

# 8.1. Control parameters

#### **Hazardous ingredients:**

# 2,2'-OXYBISETHANOL

# Workplace exposure limits:

Dac	nira	hla	duct
nes	piia	DIE	dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	101 mg/m3	1	-	1

# **DNEL/PNEC Values**

# Hazardous ingredients:

# 2,2'-OXYBISETHANOL

Type	Exposure	Value	Population	Effect
DNEL	Dermal	53mg/kg/day	Consumers	Systemic

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DNEL	Inhalation	12mg/m3	Consumers	Local
DNEL	Dermal	106mg/kg/day	Workers	Systemic
DNEL	Inhalation	60mg/m3	Workers	Local
PNEC	Fresh water	10mg/l	-	-
PNEC	Marine water	1mg/l	-	-
PNEC	Fresh water sediments	20.9mg/kg	-	-
PNEC	Soil	1.53mg/kg	-	-
PNEC	STP	199.5mg/l	-	-
PNEC	Intermittent release	10mg/l	-	-

# 8.2. Exposure controls

**Engineering measures:** Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** Respiratory protection not required.

Hand protection: Wear oil impervious gloves when handling product. Prolonged or repeated contact with

diluted metalworking fluid is often unavoidable, in such circumstances; the use of

barrier and after work creams may be beneficial. Change heavily contaminated clothing

as soon as possible.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Oil-resistant protective clothing.

#### Section 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

State: Liquid Colour: Pink

Odour: Barely perceptible odour

Solubility in water: Miscible Kinematic viscosity: 40-50

Viscosity test method: Kinematic viscosity in 10-6 m2/s at 40  $^{\circ}$ C (ISO 3219)

**Boiling point/range °C:** >100 **Melting point/range °C:** <0

Flash point °C: >100 Autoflammability °C: No data available.

Relative density: 1.05 pH: 9.0-9.3

#### 9.2. Other information

Other information: No data available.

# Section 10: Stability and reactivity

# 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

Chemical stability: Stable under normal conditions.

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#### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

# 10.4. Conditions to avoid

**Conditions to avoid:** Extremes of temperature. Store between 0 and 40 ℃.

# 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

#### 10.6. Hazardous decomposition products

Haz. decomp. products: Thermal decomposition can produce various compounds, depending on the conditions

in which decomposition took place. Depending on the temperature and the level of oxygen available products of decomposition may be carbon, oxides of sulphur, carbon and nitrogen, partially oxidised organic compounds, water and other unidentifiable organic and inorganic compounds.

#### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

# Hazardous ingredients:

#### 2,2'-OXYBISETHANOL

DERMAL	RBT	LD50	13300	mg/kg
DUST/MIST	RAT	LC50	4.6	mg/l
ORAL	MUS	Fertility	3060	mg/kg
ORAL	RAT	LD50	19600	mg/kg

Toxicity values: No data available.

# Symptoms / routes of exposure

**Skin contact:** Occasional contact with undiluted product is unlikely to cause any significant reaction.

Prolonged contact with undiluted product may cause defatting of skin barrier, leading to cracking and soreness.

**Eye contact:** Eye contact with product may cause irritation and stinging. There may be a potential to cause corneal injury if treatment is not prompt.

**Ingestion:** There may be mental confusion. May cause dizziness. Nausea and stomach pain may occur. There may be vomiting. There may be loss of consciousness. Convulsions may occur.

Inhalation: The product is unlikely to present any significant hazard at ambient temperatures.

Delayed / immediate effects: Headaches or general malaise may result. Nausea and stomach pain may occur.

Damage to liver and kidneys may develop later.

Other information: Aspiration into the lungs caused by vomiting following ingestion can be hazardous with

possible resultant chemically induced pneumonia

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#### Section 12: Ecological information

# 12.1. Toxicity

#### Hazardous ingredients:

#### 2,2'-OXYBISETHANOL

ALGAE	72H IC50	2700	mg/l
DAPHNIA	48H EC50	>10000	mg/l
FISH	96H LC50	75200	mg/l
Mircoorganisms (Activated sludge)	EC20 30mins	>1995	mg/l

# 12.2. Persistence and degradability

Persistence and degradability: Readily biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

#### 12.4. Mobility in soil

**Mobility:** Small quantities will be absorbed in the upper soil layers where biodegradation may take place.

# 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

Other adverse effects: Components are not expected to be highly toxic to aquatic life.

# Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

# **Section 14: Transport information**

**Transport class:** This product does not require a classification for transport.

#### Section 15: Regulatory information

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

Specific regulations: Not applicable.

# 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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# **Section 16: Other information**

# Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No

453/2010.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive

and shall be used only as a guide. This company shall not be held liable for any

damage resulting from handling or from contact with the above product.