



**TOTAL LUBRICANTS DIVISION**  
**MATERIAL SAFETY DATA SHEET**

**HYDRAULIC ISO 32**

**1 IDENTIFICATION OF THE SUBSTANCE & OF THE COMPANY / UNDERTAKING**

**IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:**

Hydraulic oil and general purpose lubricant.

**GENERAL IDENTIFICATION:** Total Oil (Great Britain) Ltd  
Lubricants Division  
Pottery Lane  
**Ferrybridge**  
West Yorkshire WF11 8JY

**EMERGENCY TELEPHONE NO:** 0977 636200

**2 COMPOSITION / INFORMATION ON INGREDIENTS:**

TOTAL HYDRAULIC ISO 32 is made from Solvent refined paraffinic base oils blended with selective additives.

**3 HAZARDS IDENTIFICATION**

On the basis of our knowledge of the highly refined mineral oils and the recommendations of the manufacturers of the additives used in the HYDRAULIC ISO 32 are unlikely to be hazardous to man in normal use.

The HYDRAULIC ISO 32 oil has a total polycyclic hydrocarbon (PCA) content well below the level at which carcinogenic effects have been observed in biological testing. In the environment the HYDRAULIC ISO 32 oils are likely to biodegrade slowly.

#### 4 FIRST AID MEASURES

##### TYPE OF EXPOSURE

###### **Ingestion**

Harmless if swallowed in small amounts - larger quantities may cause nausea and diarrhoea.

###### **Skin**

Unlikely to cause irritation, but pro-longed or frequent contact may cause irritation which could result in dermatitis.

###### **Eyes**

May cause minor irritation with short-term redness and stinging.

###### **Inhalation**

Unlikely to be irritant.

##### FIRST AID MEASURES

###### **Ingestion**

Wash mouth out with water. Do not induce vomiting because of the danger of aspiration. If aspiration occurs or is expected get immediate medical advice.

###### **Skin**

Wash skin as soon as possible with soap and water. Change contaminated clothing and launder before reuse.

###### **Eyes**

Wash out thoroughly with water. If redness and/or irritation continues get medical advice.

###### **Inhalation**

If inhalation of fumes irritates the nose or throat or causes coughing remove to fresh air. Get medical advice if irritation continues.

#### 5 FIRE-FIGHTING MEASURES

Extinguish with dry powder, foam, sand or earth. For small fires use CO<sub>2</sub>.

Do not tackle fires with water. Water may be used to cool the surrounding area.

Fires in closed or confined spaces should be tackled by trained personnel who should wear breathing apparatus.

## 6 ACCIDENTAL RELEASE MEASURES

May cause slippery surfaces.

Contain spillage - do not wash spillage down drain. Absorb using absorbent clay, sand or other suitable absorbent. Report any escape to public drainage or water courses to Local Authority and Fire Brigade.

## 7 HANDLING AND STORAGE

### 7.1 Handling

Skin contact should be kept to a minimum and good hygiene standards maintained. If prolonged or repeated contact is likely PROTECTIVE CLOTHING, as detailed in Section 8 SHOULD BE WORN when handling these products.

### 7.2 Storage

Drums should be stored on their sides on racks preferably under cover, out of direct sunlight, in well ventilated conditions.

Other types of containers should be stored under cover out of direct sunlight in well ventilated conditions. Care should be taken to avoid over-stacking.

## 8 EXPOSURE CONTROL / PERSONAL PROTECTION

As with all mineral oil based products keep skin contact to a minimum and ensure good hygiene standards.

**Respiratory protection** Unlikely to be required in normal use. Note occupational exposure limits for Oil Mist (HSE Guidance Note EH 40/94).

**Long term exposure limit** (8 hour TWA reference period) 5 milligrams per cubic metre.

**Short term exposure limit** (10 minute reference period) - 10 milligrams per cubic metre.

**Hand and skin protection** If contained or repeated exposure is likely PROTECTIVE CLOTHING SHOULD BE WORN including gloves (nitrile rubber or neoprene).

**Eye protection**- Eye protection should be worn if splashing is likely.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### HYDRAULIC ISO 32

Appearance Liquid	YELLOW/BROWN
Density at 15°C kg/l	0.870
Flash Point (COC)°C	210
Viscosity at 40°C cSt	32

## 10 STABILITY AND REACTIVITY

**Conditions to Avoid** Excess heat can lead to decomposition of the constituent additives with evolution of oxides of carbon, sulphur, nitrogen, phosphorous.

**Materials to Avoid** May react with strong oxidising materials.

**Hazardous Decomposition Products** Oxides of carbon, sulphur, nitrogen, phosphorous, particulate matter, unburnt hydrocarbons, polycyclic hydrocarbons and unidentified organic and inorganic compounds. With incomplete combustion - carbon monoxide.

## 11 TOXICOLOGICAL INFORMATION

The mineral oils and other components of these oils may be considered not to be essentially toxic in normal handling.

## 12 ECOLOGICAL INFORMATION

No information available but can be expected to biodegrade slowly.

## 13 DISPOSAL CONSIDERATIONS

Disposal - by incineration or by methods approved by Local Authority.

## 14 TRANSPORT INFORMATION

Not applicable - non-hazardous.

## 15 REGULATORY INFORMATION

As far as is known not classified according to EEC Directives 67/548/EEC and 88/379/EEC.

## 16 OTHER INFORMATION

**Further Information can be found in Health and Safety Executive Publications a list of which may be made available on request.**

### Liability

The information contained in this data sheet is accurate to the best of TOTAL OIL GREAT BRITAIN Limited's knowledge. It applies only to the products designated herein and supplied by TOTAL OIL GREAT BRITAIN Limited or its subsidiaries. The customer is strongly advised to observe and ensure that its employees and customers observe all directions contained herein, however neither TOTAL OIL GREAT BRITAIN Limited, nor any of its subsidiary companies accepts any liability whatsoever (other than liability in respect of matters referred to in Section 2 Unfair Contract Terms Act 1977 and in Section 7 Consumer Protection Act 1987) arising out of the use of the information or the use adaptation or processing of the products designated herein.

Where third party products are used in conjunction with or instead of products produced or supplied by TOTAL OIL GREAT BRITAIN Limited or its subsidiary companies, the customer should himself obtain all necessary technical, health and safety information about such products from the third party.