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## SAFETY DATA SHEET

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

#### 1.1 Product identifier

- Product Name: HM 32
- Product Part Number: HYD017

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

- Use of the substance/mixture: Hydraulic Fluid
- Use advised against: Do not use in any other application., For specific application information consult Technical Data Sheet.

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

- Name of Supplier: Aztec Oils Ltd
- Address of Supplier: Intake Road,  
Bolsover Business Park,  
Bolsover,  
Derbyshire,  
S44 6BB,  
UK
- Telephone: +44 (0)1246 823007  
Mon-Thurs 08:00 - 17:00  
Fri 08:00 - 16:00, GMT/BST
- Email: Technical@aztecoils.co.uk
- Name of Supplier: Aztec Oils Europe BV
- Address of Supplier: Centraleweg 11-E  
4931 NA  
Geertruidenberg  
THE NETHERLANDS
- Telephone: +31 (0)162-51 93 95  
Mon - Fri 08:30 - 17:00
- Email: Info@aztecoilseurope.nl

#### 1.4 Emergency telephone number

- Emergency Telephone: For UK and Northern Ireland Tel: 999 or 101., For ROI dial 999 or 112

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- CLP: Not classified

#### 2.2 Label elements

**SECTION 2: Hazards identification (....)**

- Signal Word: Not classified

## 2.2.1 Hazard statements

Not classified as hazardous

## 2.2.2 Precautionary statements

Keep out of reach of children (P102).

Dispose of contents and/or container in accordance with local/ national regulations (P501).

## 2.3 Other hazards

- This product is not identified as a PBT/vPvB according to current criteria.

**SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

## 3.2.1 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

CAS Number:	85940-28-9
EC Number:	288-917-4
REACH Registration Number:	01-2119521201-61
Index No.:	Not applicable
Specific concentration limits:	None assigned
M factor:	Not applicable
Concentration:	≤1.0%
H Statements:	H315, H318, H411
Categories:	Skin Irrit. 2; Eye Dam. 1; Aquatic Chronic 2

## 3.2.2 Highly refined mineral oil mix

CAS Number:	Various see below
EC Number:	Various see below
REACH Registration Number:	Various see below
Index No.:	Various see below
Specific concentration limits:	None assigned
M factor:	Not applicable
Concentration:	<100%
H Statements:	Not classified.
Categories:	Not Classified

Contains a mixture of petroleum derived mineral oils that contain <3% DMSO according to IP346

Base oil may contain one or more of the following: 101316-70-5, 309-875-6, 101316-71-6, 309-876-1 101316-72-7, 309-877-7 RRN 01-2119489969-06/ 64741-88-4, 265-090-8, RRN 01-2119488706-23, 649-454-00-7/, 64741-89-5, 265-091-3, RRN 01-2119487067-30/ 64741-95-3, 265-096-0, RRN 01-2119487081-40/ 64741-96-4, 265-097-6, RRN 01-2119483621-38/ 64742-01-4, 265-101-6, RRN 01-2119488707-21/ 64742-45-6, 265-147-7/ 64742-52-5, 265-155-0, RRN 01-2119467170-45,

### SECTION 3: Composition/information on ingredients (....)

649-465-00-7/ 64742-53-6, 265-156-6, RRN 01-2119480375-34, 649-466-00-2/ 64742-54-7, 265-157-1, RRN 01-2119484627-25, 649-461-00-8/ 64742-56-9, 265-159-2, RRN 01-2119480132-48, 649-469-00-9/ 64742-57-0, 265-160-8/ 01-2119489287-22/, 64741-88-4, 265-090-8, RNN 01-2119488706-23 / 64742-62-7, 265-166-0 / RRN 01-2119480472-38/ 64742-65-0, 265-169-7, RRN 01-2119471299-27, 649-474-00-6/ 64742-70-7, 265-174-4, RRN 01-2119487080-42 / 68037-01-4, 500-183-1, RNN 01-2119486452-34 /, 111-66-0, 203-893-7, RNN 01-2119486877-14, 01-2119409094-47 / 70693-43-5, 813-310-3/ 72623-85-9, 276-736-3, RRN 01-2119555262-43/ 72623-86-0, 276-737-9, RRN 01-2119474878-16, 649-482-00-x/ 72623-87-1, 276-738-4, RRN 01-2119474889-13, 649-483-00-5/ 74869-22-0, 278-012-2, RRN 01-2119495601-36, 649-484-00-0/ 8042-47-5, 232-455-8, 01-2119487078-27.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### 4.1.1 Inhalation

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

##### 4.1.2 Contact with eyes

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses (if easy to do so). Get medical attention.

##### 4.1.3 Contact with skin

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

##### 4.1.4 Ingestion

Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

##### 4.2.1 Ingestion

May cause gastro-intestinal disturbances

##### 4.2.2 Contact with eyes

May cause redness and irritation

##### 4.2.3 Contact with skin

May cause defatting of the skin. May cause skin dryness and irritation.

##### 4.2.4 Inhalation

May cause irritation

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

- Treatment should be symptomatic and directed to relieving any effects.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.  
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2 Special hazards arising from the substance or mixture

- If heated or in cases of fire, pressure in a vessel will increase and container may burst.
- Combustion products may include: carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide), metal oxide/ oxides, phosphorous oxides and sulphur oxides (SO, SO<sub>2</sub>, etc..)

### 5.3 Advice for firefighters

- Promptly isolate and secure the scene, remove all unnecessary and untrained persons from the vicinity if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  
Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European Standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 6: Accidental release measures

Spillage causes slippery surface

### 6.1 Personal precautions, protective equipment and emergency procedures

- Stop any leak if it is safe to do so.
- Absorb with sand or other inert absorbent. Collect in containers and seal securely.
- Adopt best manual handling considerations when handling, carrying and dispensing.
- Appropriate protective equipment must be worn when handling a spill of this material. See SECTION 8, Exposure Controls/Personal Protection, for recommendations. If exposed to material during clean-up operations, see SECTION 4, First Aid Measures, for actions to follow.

### 6.2 Environmental precautions

- Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

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

- Stop any leak if it is safe to do so.
- Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
- Dispose of in compliance with all local and national regulations.

### 6.4 Reference to other sections

- See Section 1 for emergency contact information.  
See Section 5 for firefighting measures.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 12 for environmental precautions.  
See Section 13 for additional waste treatment information.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Use appropriate personal protective equipment.
- Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

- Store in accordance with local regulations.
- Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

### 7.3 Specific end use(s)

- The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

- If this product contains ingredients with exposure limits, personal and/or workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

#### Substances

Chemical Name	WEL (short term)	WEL (long term)	STEL	WEL
Highly refined mineral oil mix	-	5mg/m <sup>3</sup>		5 mg/m <sup>3</sup> (IE)

#### Substances

Chemical Name	DNEL (Industry; dermal, long term systemic effects)	DNEL (Industry; oral, long term systemic effects)	DNEL (Industry; inhalational, long term systemic effects)	PNEC
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	9.6 mg/kg bw/day		6.6 mg/m <sup>3</sup>	0.004 mg/l

#### Substances

## SECTION 8: Exposure controls/personal protection (....)

Chemical Name	DNEL (Consumer; dermal, long term systemic effects)	DNEL (Consumer; oral, long term systemic effects)	DNEL (Consumer; inhalational, long term systemic effects)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	4.8 mg/kg bw/day	0.19 mg/kg bw/day	1.67 mg/m3

### 8.2 Exposure controls

- A full risk assessment should be undertaken before handling this material.



- Engineering Controls
- Appropriate Engineering Control:  
All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.  
No special requirements under ordinary conditions of use and with adequate ventilation.
- Eye Protection:  
If contact is likely, safety glasses are recommended.
- Hand Protection
- As specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled and the conditions of work and use. Recommended: Nitrile or other suitable glove. Breakthrough time represents how long a glove can be expected to provide effective permeation resistance. Always consult with your glove supplier for up-to-date technical information on breakthrough.
- Skin and Body Protection  
Wear appropriate clothing as protection against splashing.  
In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
- Hygiene Measures  
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking.  
Routinely wash work clothing and protective equipment to remove contaminants.
- Respiratory Protection  
No Special requirements under ordinary conditions of use and with adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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## SECTION 9: Physical and chemical properties (....)

- Appearance: Amber
- Physical state: Liquid
- Odour: Characteristic.
- Density: 0.853 at 15°C
- Viscosity: 32 cSt @ 40 °C
- Freezing point/Range: No data available.
- Boiling Point/Range: ≥300°C
- Flashpoint: >200°C
- Autoignition Temperature: No information available

### 9.2 Other information

- Not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- No specific test data available for this product. Refer to, conditions to avoid and incompatible material sections for additional information.

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

- None under normal processing.
- Hazardous polymerisation does not occur.

### 10.4 Conditions to avoid

- Avoid heat, flames and other sources of ignition.

### 10.5 Incompatible materials

- Reactive or incompatible with the following materials: oxidizing materials.

### 10.6 Hazardous decomposition products

- Under normal conditions of storage and use, hazardous decomposition products should not be produced

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Substances

Chemical Name	LC <sub>50</sub> (inhalation, rat)	LD <sub>50</sub> (dermal, rabbit)	LD <sub>50</sub> (oral, rat)

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**SECTION 11: Toxicological information (....)**

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	2.3 mg/l	20000 mg/kg	3080 mg/kg
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## 11.1.1 Contact with eyes

May cause redness and irritation

## 11.1.2 Contact with skin

May cause redness and irritation

## 11.1.3 Ingestion

May cause gastro-intestinal disturbances

## 11.1.4 Inhalation

May cause irritation

## 11.2 Information on other hazards

- Not applicable

**SECTION 12: Ecological information**

## 12.1 Toxicity

## Substances

Chemical Name	IC <sub>50</sub> (algae)	EC <sub>50</sub> (daphnia)	LC <sub>50</sub> (fish)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	2.1 mg/l (72hr)	5.4 mg/l (48hr)	4.5 mg/l (96hr)

## 12.2 Persistence and degradability

- Not readily biodegradable.

## 12.2.1 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

Not readily biodegradable.

## 12.2.2 Highly refined mineral oil mix

Not readily biodegradable.

## 12.3 Bioaccumulative potential



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## SECTION 12: Ecological information (....)

- No data available.

### 12.4 Mobility in soil

- Immiscible with water.

### 12.5 Results of PBT and vPvB assessment

- Does not contain any PBT or PvB substances.

#### 12.5.1 Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts

Not Classified as PBT/vPvB by current EU criteria.

#### 12.5.2 Highly refined mineral oil mix

Not Classified as PBT/vPvB by current EU criteria.

### 12.6 Endocrine disrupting properties

- Not applicable

### 12.7 Other adverse effects

- Spillages may form an oil layer on water surfaces causing physical damage to organisms. Oxygen transfer may also be impaired.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Dispose of in compliance with all local and national regulations.

### 13.2 Classification

- This material and its containers must be disposed of as controlled waste. Dispose of waste via a licensed waste disposal contractor.
- EWC NUMBER: Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.
- Where possible, arrange for product to be recycled.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

- UN No.: Not regulated.

### 14.2 UN proper shipping name

- Proper Shipping Name: Not applicable.

### 14.3 Transport hazard class(es)

- Hazard Class: Not applicable.

### 14.4 Packing group

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## SECTION 14: Transport information (....)

- Packing Group: Not applicable.

### 14.5 Environmental hazards

- Not classified.

### 14.6 Special precautions for user

- Not available.

### 14.7 Maritime transport in bulk according to IMO instruments

- Not available.

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## SECTION 15: Regulatory information

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

- Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
- Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed

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## SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H315: Causes skin irritation. H318: Causes serious eye damage. H411: Toxic to aquatic life with long lasting effects.

### Disclaimer

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process

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