

Revised: 26 Jun 2025

SAFETY DATA SHEET

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, Lubricant
- 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
Monday-Thursday 08:00 - 17:00
Friday 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
Monday - Friday 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

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

2.2.2 Precautionary statements

Not classified

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 does not contain any PBT or vPvB substances.
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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: Not assigned.
M factor, acute: Not applicable.
M factor, chronic: 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: Not assigned.
M factor, acute: Not applicable.
M factor, chronic: Not applicable.
Concentration: <100%
H Statements: Not applicable
Categories: Not classified
Contains a mixture of petroleum derived mineral oils that contain <3% DMSO according to IP346.

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

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/ 64741-76-0, 265-077-7, 649-453-00-1, RRN 01-2119486951-26/ 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/ 64742-53-6, 265-156-6, 649-466-00-2, RRN 01-2119480375-34/ 64742-45-6, 265-147-7/ 64742-46-7, 265-148-2, RRN 01-2119489867-12, 649-221-00-X/ 64742-47-8, 265-149-8, RRN 01-2119484819-18, 649-422-00-2/ 64742-52-5, 265-155-0, RRN 01-2119467170-45, 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/ 64742-55-8, 265-158-7, 649-468-00-3, RRN 01-2119487077-29/ 64742-56-9, 265-159-2, RRN 01-2119480132-48, 649-469-00-9/ 64742-57-0, 265-160-8, RRN 01-2119489287-22/, 64741-88-4, 265-090-8, RRN 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, RRN 01-2119486452-34 / , 111-66-0, 203-893-7, RRN 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, RRN 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 redness and irritation.

SECTION 4: First aid measures (....)**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.

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, CO₂) (carbon monoxide, carbon dioxide), metal oxide/ oxides, phosphorous oxides and sulphur oxides (SO, SO₂, 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.

SECTION 6: Accidental release measures**Spillage causes slippery surface****6.1 Personal precautions, protective equipment and emergency procedures**

- Stop leak, if safe to do so.
- Absorb with sand or other inert absorbant. 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 allow product to enter drains. Prevent further spillage if safe. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

- Stop leak, if 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.

SECTION 6: Accidental release measures (....)

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.

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)
Highly refined mineral oil mix	- mg/m ³ (UK) - mg/m ³ (IE)	5 mg/m ³ (UK) 5 mg/m ³ (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

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

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	9.6 mg/kg bw/day	- mg/kg bw/day	6.6 mg/m ³	0.004 mg/l
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Substances

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/m ³

8.2 Exposure controls

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



- Engineering Controls:
- All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.
- Eye Protection:
If contact is likely, safety glasses are recommended.
- Hand protection:
Because specific work environments and material handling practices vary, safety procedures should be developed for each application. The right choice of protective gloves depends on the chemicals used and the working conditions and use. Recommended: Nitrile or alternative suitable gloves. "Breakthrough time" shows how long the gloves can have effective resistance. Always consult with your glove supplier for the latest breakthrough technical information.
- 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

- Appearance: Amber
- Physical state: Liquid
- Odour: Characteristic odour
- Density: 0.853 g/cm³ at 15 °C
- Viscosity (kinematic): 32 cSt at 40 °C
- Freezing point/Range: No information available.
- Boiling Point/Range: ≥300°C
- Flashpoint: >200°C
- Autoignition Temperature: No information available.

9.2 Other information

- No information available.
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SECTION 10: Stability and reactivity

10.1 Reactivity

- No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

10.2 Chemical stability

- Stable under normal temperature conditions and recommended use.

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.
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

- No experimental data available.

Substances

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SECTION 11: Toxicological information (....)

Chemical Name	LC ₅₀ (inhalation, rat)	LD ₅₀ (dermal, rabbit)	LD ₅₀ (oral, rat)
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

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 redness and irritation.

11.2 Information on other hazards

- No information available.

SECTION 12: Ecological information**12.1 Toxicity**

- No experimental data available.

Substances

Chemical Name	IC ₅₀ (algae)	EC ₅₀ (daphnia)	LC ₅₀ (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

SECTION 12: Ecological information (....)

Not readily biodegradable.

12.3 Bioaccumulative potential

- No experimental 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.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Dispose of in compliance with all local and national regulations.
- Where possible, arrange for product to be recycled.

13.2 Classification

- For classification and assessment of waste, refer to technical guidance WM3 (Appendix A) or EWC (European Waste Catalogue) codes for hazardous and non-hazardous waste, where appropriate.

SECTION 14: Transport information**14.1 UN number or ID number**

- UN No.: Not applicable.

14.2 UN proper shipping name

- Proper Shipping Name: Not applicable.

14.3 Transport hazard class(es)

- Hazard Class: Not applicable.

SECTION 14: Transport information (....)

14.4 Packing group

- Packing Group: Not applicable.

14.5 Environmental hazards

- Not classified.

14.6 Special precautions for user

- Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable.

SECTION 15: Regulatory information

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

- This SDS has been compiled according to UK SI 2019/758 and EC 1272/2008 as amended in the UK.
- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

15.2 Chemical safety assessment

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

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