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SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: ENGINE FLUSHING OIL
- Product Part Number: MON003

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

- Use of the substance/mixture: Engine oil
- 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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Not classified

2.2 Label elements

- Signal Word: Not classified

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SECTION 2: Hazards identification (....)

2.2.1 Hazard statements

Not classified as hazardous

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

3.2.1 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

CAS Number: Not available.

EC Number: 701-251-5

REACH Registration Number: 01-2119524004-56

Index No.: Not applicable

Specific concentration limits: None assigned

M factor: Not applicable

Concentration: ≤1.1%

H Statements: H413

Categories: Aquatic Chronic 4

3.2.2 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: <0.5%

H Statements: H315, H318, H411

Categories: Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2

3.2.3 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

CAS Number: 84605-29-8

EC Number: 283-392-8

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

REACH Registration Number: 01-2119493626-26

Index No.: Not applicable

Specific concentration limits: None assigned

M factor: Not applicable

Concentration: <0.5%

H Statements: H315, H318, H411

Categories: Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 2

3.2.4 Highly refined mineral oil

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: <97%

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, 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.

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

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 Inhalation

May cause irritation

4.2.2 Ingestion

May cause gastro-intestinal disturbances

4.2.3 Contact with skin

May cause redness and irritation

4.2.4 Contact with eyes

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

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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 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 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.

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

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

- 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	-	5 mg/m ³		5 mg/m ³ (IE)

Substances

Chemical Name	PNEC	DNEL (Industry; inhalational, long term systemic effects)	DNEL (Industry; dermal, long term systemic effects)	DNEL (Industry; oral, long term systemic effects)
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	0.5mg/l	3.5 mg/m ³	0.5 mg/kg bw/day	- mg/kg bw/day
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	0.004mg/l	6.6 mg/m ³	9.6 mg/kg bw/day	- mg/kg bw/day
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	0.004 mg/l	8.31 mg/m ³	12.1 mg/kg bw/day	- mg/kg bw/day

Substances

Chemical Name	DNEL (Consumer; inhalational, long term systemic effects)	DNEL (Consumer; dermal, long term systemic effects)	DNEL (Consumer; oral, long term systemic effects)
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	0.87 mg/m ³	0.25 mg/kg bw/day	0.25 mg/kg bw/day

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

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	1.67 mg/m ³	4.8 mg/kg bw/day	0.19 mg/kg bw/day
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	2.11 mg/m ³	6.1 mg/kg bw/day	0.24 mg/kg bw/day

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
- 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 handles and the conditions of work and use.
Recommended: Nitrile or alternative 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

- Appearance: Brown

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

- Physical state: Liquid
- Odour: Characteristic.
- Density: 0.86 at 15°C
- Viscosity (kinematic): 6.8cSt at 100°C
- Freezing point/Range: No information available
- Boiling Point/Range: ≥320°C
- Flashpoint: >200°C
- Autoignition Temperature: >250°C

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 materials 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

- No data available.

Substances

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

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SECTION 11: Toxicological information (....)

Highly refined mineral oil	>5.53 mg/l	>5000 mg/kg bw	>5000 mg/kg bw
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	1.67 mg/l	4000 mg/kg bw	>5000 mg/kg bw
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	2000 mg/l	20000 mg/kg bw	3080 mg/kg bw
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	2300 mg/l	>2002 mg/kg bw	3100 mg/kg bw

- Inhalation may cause irritation to the respiratory tract.
- Ingestion: May cause gastro-intestinal disturbances
- Skin contact: Defatting to the skin. May cause skin dryness and irritation.
- Eye contact: No known significant effects or critical hazards.
- No other specific data and information available.

11.2 Information on other hazards

General: USED ENGINE OILS

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

SECTION 12: Ecological information**12.1 Toxicity**

- Not classified as dangerous

12.2 Persistence and degradability

- The product is not readily biodegradable.

12.2.1 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

Not readily biodegradable.

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

Not readily biodegradable.

12.2.3 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

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SECTION 12: Ecological information (....)

Not readily biodegradable.

12.2.4 Highly refined mineral oil

Not readily biodegradable.

12.3 Bioaccumulative potential

- The product has limited potential for bioaccumulation. The product is not expected to bioaccumulate through food chains in the environment.

12.4 Mobility in soil

- Spillages may penetrate the soil causing ground water contamination.
- Immiscible with water.

12.5 Results of PBT and vPvB assessment**12.5.1 Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased**

Not Classified as PBT/vPvB by current EU criteria.

12.5.2 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.

12.5.3 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Not Classified as PBT/vPvB by current EU criteria.

12.5.4 Highly refined mineral oil

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.

13.2 Classification

- This material and its containers must be disposed of as hazardous 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.

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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

- 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.

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

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. H413: May cause long lasting harmful effects to aquatic life.

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

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SECTION 16: Other 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

--- end of safety datasheet ---