

Revision: 20 Dec 2018

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

- Product Name: Open Gear Lubricant 500ML
- Product Part Number: AER003ML500

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

- Identified uses: Penetrant/ Maintenance Spray
- Use advised against: 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 Intake Road
- Address of Supplier: Bolsover Business Park,  
Bolsover,  
Derbyshire,  
S44 6BB,  
UK
- Telephone: +44 (0)1246 823007 Office hours only.
- Email: Technical@aztecoils.co.uk

#### 1.4 Emergency telephone number

- Emergency Telephone: +44 (0)1246 823007  
Monday to Thursday - 08:00-17:00  
Fri 08:00-16:00

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

- CLP: Flam. Aerosol 1.  
Skin Irrit. 2.  
Aquatic Chronic 3.

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

### 2.2 Label elements



- **Signal Word:** Danger
- **Hazard statements:**
  - H222: Extremely flammable aerosol.
  - H229: Pressurised container: may burst if heated.
  - H315: Causes skin irritation.
  - H412: Harmful to aquatic life with long lasting effects.
- **Precautionary statements:**
  - P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P211: Do not spray on an open flame or other ignition source.
  - P251: Pressurised container, do not pierce or burn, even after use.
  - P410 + 412: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
  - P501: Dispose of contents/ container in accordance with local/ national government regulations.
  - P102: Keep out of reach of children.
  - P260: Do not breathe vapour/ spray.
  - P271: Use only outdoors or in a well-ventilated area.
  - P262: Do not get in eyes, on skin, or on clothing.

### 2.3 Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

- **Petroleum gases, liquified: petroleum gas**
  - CAS Number: 68476-85-7
  - EC Number: 270-704-2
  - REACH Registration Number: 01-2119485911-31-xxxx.
  - Concentration: 30-60%

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

H Statements: H220, H280  
Symbols: GHS02  
Categories: Flam. Gas 1, Press. Gas (liq)

### - Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics <5% n-hexane

CAS Number: 92128-66-0  
EC Number: 921-024-6  
REACH Registration Number: 01-2119475514-35-xxxx.  
Concentration: 10-30%  
H Statements: H225, H315, H336, H304, H411  
Symbols: GHS02, GHS07, GHS08, GHS09  
Categories: Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2.

### - n-hexane

CAS Number: 110-54-3  
EC Number: 203-777-6  
REACH Registration Number: 01-2119480412-44-xxxx.  
Concentration: <1%  
H Statements: H225, H315, H361f, H336, H373, H304, H411  
Symbols: GHS02, GHS07, GHS08, GHS09  
Categories: Flam. Liq. 2, Skin Irrit. 2, Repr. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 2.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### - Inhalation

If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air, keep warm and at rest in a position comfortable for breathing. If breathing stops provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

#### - Contact with eyes

Rinse immediately with plenty of water. Remove any contact lenses if easy to do so and open eye lids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

#### - Contact with skin

Remove contaminated clothing immediately and wash skin with soap and water.

#### - Ingestion

Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.

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

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

- See Section 11 for more detailed information on health effects and symptoms.

### 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.

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

- Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable. Forms explosive mixtures with air.
- Inform Fire Brigade of potential danger of exploding and rocketing cylinders.

### 5.3 Advice for firefighters

- Cool containers exposed to heat with water spray or fog and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

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## SECTION 6: Accidental release measures

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

- Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours. Remove ignition sources.

### 6.2 Environmental precautions

- Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.

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

- Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb spillage with non-combustible, absorbent material.

### 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.



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

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

- Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Do not spray on a naked flame or any incandescent material. Eliminate all sources of ignition.

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

- Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Extremely flammable.
- Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.
- Keep away oxidizing agents, strong acids and strong bases.

### 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

#### Substances

Chemical Name	WEL (short term)	WEL (long term)
Petroleum gases, liquified: petroleum gas	1250ppm	1000ppm
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane.	-	1200 mg/m <sup>3</sup>
n-hexane	-	20ppm

### 8.2 Exposure controls



#### - Engineering Controls:

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

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

### - Personal protection:

Do not eat, drink or smoke when using this product.

### - Hand protection:

Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

### - Hygiene measures:

Wash hands after handling. Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.

### Respiratory protection:

- If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |  |                            |
|--|----------------------------|
| - Appearance:                              | Aerosol                    |
| - Colour:                                  | Colourless to pale yellow. |
| - Odour:                                   | Characteristic.            |
| - Boiling point/range:                     | -40 to -2°C.               |
| - Flashpoint:                              | -40°C.                     |
| - Vapour pressure:                         | No data available.         |
| - Partition coefficient (n-Octanol/Water): | No data available.         |
| - Oxidising properties:                    | No data available.         |
| - Autoignition temperature:                | 410-580°C.                 |
| - Lower flammability limit:                | 1.8%.                      |
| - Relative density:                        | No data available          |
| - Upper flammability limit:                | 9.5%.                      |

### 9.2 Other information

- The figures in this section are for guidance only please always use them in conjunction with the technical data sheet. Information given is applicable to the major ingredient.
- This product contains a maximum VOC content of 390 g/l.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

## SECTION 10: Stability and reactivity (...)

- Stable under normal temperature conditions and recommended use. Pressurised container may burst if heated.

### 10.2 Chemical stability

- Avoid heat, sparks and flames.

### 10.3 Possibility of hazardous reactions

- No additional information available.

### 10.4 Conditions to avoid

- Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

### 10.5 Incompatible materials

- Keep away from oxidising agents, strong acids & bases, heat and flames.

### 10.6 Hazardous decomposition products

- Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- |   |                    |
|---|--------------------|
| - Acute toxicity:                                     | No data available. |
| - Germ cell mutagenicity:                             | No data available. |
| - Specific target organ toxicity (single exposure):   | No data available. |
| - Specific target organ toxicity (repeated exposure): | No data available. |
| - Aspiration hazard:                                  | No data available. |

#### - Inhalation

In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.

#### - Contact with eyes

Vapour or spray in the eyes may cause irritation and smarting.

#### - Contact with skin

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Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.

- **Acute and chronic health hazards**

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

Arrhythmia (deviation from normal heart beat). In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

- **Medical symptoms**

Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

n-hexane				
Dermal	Rabbit	LD50	>2000	mg/kg
Inhalational	Rat	4H LC50	48,000	ppm

- Skin corrosion/ irritation: May cause irritation.
- Serious eye damage/ irritation: May cause irritation.
- Carcinogenicity: Criteria not met.
- Reproductive toxicity: Fertility – 5000ppm, Maternal NOAEL: 20-1000ppm.

**SECTION 12: Ecological information**

This product has not been tested but contains ingredients which are toxic or very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering watercourses.

**12.1 Toxicity**

n-hexane				
Acute toxicity	Fish (Rainbow Trout)	LL50 96 hours	12.51	mg/l
Acute toxicity	Aquatic invertebrates	LL50 48 hours	21.85	mg/l
Acute toxicity	Aquatic plants	LL50 72 hours	9.29	mg/l

**12.2 Persistence and degradability**

- No data available.

**12.4 Bioaccumulative potential**

- Bioaccumulative potential. Bioaccumulation is unlikely.
- Partition coefficient No data available.



#### 12.5 Mobility in soil

- No data available.

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

#### 12.6 Results of PBT and vPvB assessment

- No data available.

#### 12.7 Other adverse effects

- No data available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Do not pierce or burn even after use.
- Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

### SECTION 14: Transport information



This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

#### 14.1 UN number

- UN No.: UN 1950

#### 14.2 UN proper shipping name

- Proper Shipping Name: AEROSOLS

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**14.3 Transport hazard class(es)**

- Hazard Class: 2.1

**SECTION 14: Transport information (...)****14.4 Packing group**

- Not applicable.

**14.5 Environmental hazards**

- Not classified.

**14.6 Special precautions for user**

- Transport category (ADR): 2
- Tunnel restriction code (ADR): D
- EmS-No. (Fire): F-D
- EmS-No. (Spillage): S-U

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

- Not applicable.
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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).
- British Aerosol Manufacturers Code of Practice 7th. Edition 1999.

**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: H220: Extremely flammable gas. H222: Extremely flammable aerosol, H225: Highly flammable liquid and vapour, H229: Pressurised container: may burst if heated, H280: Contains gas under pressure; may explode if heated. H304: May be fatal if swallowed and enters airways. H315:

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Causes skin irritation, H336: May cause drowsiness or dizziness, H361f: Suspected of damaging the unborn child, H373: May cause damage to organs through prolonged or repeated exposure, H411: Toxic to aquatic life with long lasting effects, H412: Harmful to aquatic life with long lasting effects.

**SECTION 16:Other information (...)****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.

--- end of safety datasheet ---

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