

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : OIL - APIEZON AP303**

### 1. Product and Company Identification

Product name: Apiezon AP303 Oil  
Synonyms: None  
Item Numbers: Part of Relubrication Kit B580-55-001  
10211-303 (used in the manufacture of turbomolecular pumps)

#### European Contact Details

Edwards, Manor Royal, Crawley  
West Sussex, RH10 9LW, England

##### General enquiries

UK : +44 (0)1293 528844  
France : +(33) 1 47 98 24 01  
Germany : +(49) 6420-82-410  
Italy : +(39) 0248-4471

#### US Contact Details

Edwards, 301 Ballardvale Street,  
Wilmington, MA 01887

##### General enquiries

+(1) 978-658-5410  
Toll Free: 1-800-848-9800

24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

### 2. Composition/Information on Ingredients

| Ingredient                       | % Weight | CAS No     | Hazard class*  | Risk phrase*   |
|----------------------------------|----------|------------|----------------|----------------|
| Pentaerythritol fatty acid ester | 100      | 67762-53-2 | Not applicable | Not applicable |

\*Hazard class & Risk phrase. These columns are only completed for ingredients which are classified as hazardous under EU Directive (67/548/EEC, as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not applicable".

### 3. Hazards Identification

#### EMERGENCY OVERVIEW

This material when properly handled according to good working and hygienic practices is not dangerous to human health and the environment.

For short and long term exposure effects see Section 11 Toxicological data.

Eye Effects: May cause transient irritation.  
Skin Effects: Repeated and prolonged exposure may cause skin disorders.  
Ingestion/Oral Effects: May cause nausea, vomiting and diarrhoea.  
Inhalation Effects: None known. (Low volatility makes inhalation unlikely.)

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

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| NFPA Hazard codes |   | HMIS Hazard codes |   | Rating System       |
|-------------------|---|-------------------|---|---------------------|
| Health            | 0 | Health            | 0 | 0 = No Hazard       |
| Flammability      | 1 | Flammability      | 1 | 1 = Slight Hazard   |
| Instability       | 0 | Reactivity        | 0 | 2 = Moderate Hazard |
|                   |   |                   |   | 3 = Serious Hazard  |
|                   |   |                   |   | 4 = Severe Hazard   |

### 4. First Aid Measures

- Eyes: Irrigate with copious quantities of water.
- Skin: Wash with soap and water.
- Ingestion/Oral: Do not induce vomiting. Seek immediate medical attention.
- Inhalation: If high concentrations of mists or fumes are inhaled, remove the person to fresh air. If breathing problems occur, a qualified individual should administer oxygen or artificial respiration as indicated. Seek immediate medical attention.
- Other Information: None.

### 5. Fire Fighting Measures

- Extinguishing Media: Carbon dioxide, dry powder, foam or water fog. Do not use water jets. Direct water stream may cause violent frothing.
- Fire and Explosion Hazard: No unusual hazards identified. No known hazardous decomposition products.
- Special Protective Equipment for Fire Fighters: In confined spaces, fire fighters should wear a self-contained breathing apparatus (SCBA) which meets appropriate standards operated in positive pressure mode and full turnout gear.

For Flammability Properties - see Section 9

### 6. Accidental Release Measures

Contain spill. Soak up spill with absorbent granules before washing area, to prevent slip hazard. Prevent the oil from entering drains, sewers and water courses.

### 7. Handling and Storage

- Handling: No special precautions required.
- Storage: No special precautions required.

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### 8. Exposure Controls/Personal Protection

#### Exposure Limits:

| Ingredient     | ACGIH - TLV -  | OSHA - PEL     | Occupational Exposure Limits EH40 (UK) |
|----------------|----------------|----------------|--|
| Not applicable | Not applicable | Not applicable | Not applicable                         |

#### Personal Protection:

|                           |  |
|---------------------------|--|
| Engineering Measures:     | None required under normal conditions of use.  |
| Respiratory Protection:   | None required under normal conditions of use.  |
| Hand/Skin Protection:     | Wear impervious gloves. Avoid prolonged exposure.  |
| Eye/Face Protection:      | Wear safety glasses/goggles when handling.   |
| Hygiene Measures:         | Practice good workplace hygiene. Do not eat, drink or smoke when handling.<br>Wash hands after use and before eating or smoking. |
| Other/General Protection: | None.  |

### 9. Physical and Chemical Properties

|                            |   |                        |                   |       |
|----------------------------|---|------------------------|-------------------|-------|
| Appearance and Odour       | Pale yellow liquid with a faint sweet odour | Boiling point          | No data available | °C/°F |
| pH (as supplied)           | No data available                           | Freezing Point         | No data available | °C/°F |
| Solubility in Water        | Insoluble                                   | Auto Ignition          | 435 / 815         | °C/°F |
| Volatile Content by Volume | No data available                           | Flash Point            | 275 / 527         | °C/°F |
| Specific Gravity           | 0.97 @ 20 °C/68 °F                          |                        |                   |       |
| Vapour Pressure (mbar)     | No data available                           | Vapour Pressure (Torr) | No data available |       |

### 10. Stability and Reactivity

|                               |   |
|-------------------------------|---|
| Stability:                    | Stable.   |
| Material/Conditions to Avoid: | Avoid temperatures > 250 °C/482 °F. Avoid contact with strong oxidising agents. |
| Hazardous Decomposition:      | No known hazardous decomposition products.                                      |
| Hazardous Polymerisation:     | Will not occur.   |

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### 11. Toxicological Information

For a comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation refer to Section 3 Hazards Identification.

#### Animal data:

LD50 value: Oral - 5000 mg/kg (Rat), Dermal - 2000 mg/kg (Rabbit)

LC50 value: No data available.

#### Carcinogenicity:

No known carcinogenic or mutagenic effects.

### 12. Ecological Information

When the product is used and/or disposed of as indicated, no adverse environmental effects are foreseen.

Mobility: the product is non-volatile in air and is insoluble in water.

The product is biodegradable.

### 13. Disposal Considerations

Dispose of waste product, spillages and used containers in accordance with all local, federal and national requirements. The product may be incinerated.

### 14. Transport Information

This product is not classified as dangerous under transport regulations.

| PARAMETER             | EUROPEAN       | CANADIAN TDG   | UNITED STATES DOT |
|-----------------------|----------------|----------------|-------------------|
| Proper Shipping Name  | Not applicable | Not applicable | Not applicable    |
| Hazard Class          | Not applicable | Not applicable | Not applicable    |
| Identification Number | Not applicable | Not applicable | Not applicable    |
| Shipping Label        | Not applicable | Not applicable | Not applicable    |

### 15. Regulatory Information

#### European Regulatory Information

This product has been classified in accordance with the Dangerous Substances Directive (67/548/EEC, as amended) and the Preparations Directive (88/379/EEC, as amended), implemented in the UK as the Chemical (Hazard Information and Packing) Regulations 1994 (CHIP, as amended).

Classified as dangerous to supply : No

Risk Phrases : Not applicable

Safety Phrases : Not applicable

Symbols : None

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### United States Regulatory Information

All ingredients contained in this product are included on the EPA TSCA Chemical Substance Inventory.

#### SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 and 40 CFR Part 372.

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

### Canadian Regulatory Information

WHMIS Classification: Not classified.

All ingredients in this product are included in the Canadian DSL.

### 16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and the EU Safety Data Sheet Directive 91/155/EEC.

Sources of information for this data sheet:

- M & I Materials Ltd. "AP303 Oil" Safety Data Sheet, Issue date : January 2004.

### Glossary:

**ACGIH** - American Conference of Governmental Industrial Hygienists; **ANSI** - American National Standards Institute; **Canadian TDG** - Canadian Transportation of Dangerous Goods; **CAS** - Chemical Abstracts Service; **Chemtrec** - Chemical Transportation Emergency Center (US); **CHIP** - Chemical (Hazard Information and Packing); **DSL** - Domestic Substances List; **EH40 (UK)** - HSE Guidance Note EH40 Occupational exposure limits; **EPCRA** - Emergency Planning and Community Right-to-Know Act; **HMIS** - Hazardous Material Information Service; **LC** - Lethal Concentration; **LD** - Lethal Dose; **NFPA** - National Fire Protection Association; **OSHA** - Occupational Safety and Health Administration, US department of Labour; **PEL** - Permissible exposure limit; **SARA (Title III)** - Superfund Amendments and Reauthorization Act; **SARA 313** - Superfund Amendments and Reauthorization Act, Section 313; **SCBA** - Self-Contained Breathing Apparatus; **TLV** - threshold limit value; **TSCA** - Toxic Substances Control Act Public Law 94-469; **US DOT** - US Department of Transportation; **WHMIS** - Workplace Hazardous Materials Information System.

### Revisions:

Nov 2007 - Data Sheet updated to reflect the latest supplier safety information.

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