

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
E-mail: info@edwardsvacuum.com

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, Three Highwood Drive, Suite 3-10E,
Highwood Office Park, Tewksbury, MA 01876

General enquiries

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

24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

2. 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.

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

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : OIL - APIEZON AP303

3. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Pentaerythritol fatty acid ester	100	68424-31-7	Not applicable	Not applicable

*Hazard class & Risk phrase. These columns are only completed for ingredients which are classified as hazardous under EU Directive No 1272/2008 (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".

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:	Combustion will give rise to particles and gases similar to burning wood.
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. Prevent the oil from entering drains, sewers and water courses. Soak up spill with an inert absorbent material and wash contaminated area, to prevent slip hazard. Place contaminant in labelled containers.

7. Handling and Storage

Handling:	Avoid eye and prolonged skin contact.
Storage:	Store in a cool dry place. Exposure to air should be minimised. Opened containers should be properly sealed after use.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : OIL - APIEZON AP303

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. 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	260 / 500	°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.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : OIL - APIEZON AP303

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 2 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.

Degradability: The product is bio-degradable. There is no potential for bio-accumulation.

13. Disposal Considerations

Dispose of waste product, spillages and used containers in accordance with all local and national requirements. The product may be incinerated. Unused product may be returned for reclamation. European Waste Code: 13 03 09.

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 EU Regulation No 1272/2008 (as amended) on the Classification, Labelling and Packaging of Substances and Mixtures.

Classified as dangerous to supply: No.

Risk Phrases: Not applicable.

Safety Phrases: Not applicable.

Symbols: None.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : OIL - APIEZON AP303

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 Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Sources of information for this data sheet:

- M & I Materials Ltd. "AP303 Oil" Safety Data Sheet, Issue date: January 2010.

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:

August 2010 - Data Sheet updated to reflect the latest supplier safety information.

Although the information and recommendations in this data sheet are to the best of our knowledge correct, it is recommended that you make your own determination of the material's suitability for your purpose before you use it. The information contained in this data sheet has been reproduced from the manufacturers data; the accuracy of this information is the responsibility of the manufacturer. Edwards accept no responsibility for damage of any nature resulting from the use of, or the reliance upon, this data sheet.