

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : GREASE - APIEZON AP101**

### 1. Product and Company Identification

Product name: Apiezon AP101 Grease  
Synonyms: None  
Item Numbers: H023-01-044

#### 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. Toxic fumes may be liberated above 300 °C/572 °F.

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

Eye Effects: May cause transient irritation.  
Skin Effects: Repeated and prolonged contact may cause skin disorders.  
Ingestion/Oral Effects: May cause nausea, vomiting and diarrhoea.  
Inhalation Effects: Low volatility makes hazardous inhalation effects unlikely.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: May aggravate pre-existing eye and skin disorders.

NFPA Hazard codes		HMIS Hazard codes		Rating System
Health	1	Health	1	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 : GREASE - APIEZON AP101**

### 3. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Hydrocarbon grease	100	8012-95-1 9002-84-0 4485-12-5	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. Obtain medical attention.
Inhalation:	None envisaged. If high concentrations of mists or fumes are inhaled, remove 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.
Fire and Explosion Hazard:	No unusual hazards known. May liberate toxic gases at temperatures higher than 300 °C/572 °F. Direct water jet stream may cause violent frothing.
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

Remove grease and clean area to prevent slip hazard. Place recovered grease in containers. Prevent product from entering drains, sewers and watercourses.

### 7. Handling and Storage

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

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : GREASE - APIEZON AP101**

### 8. Exposure Controls/Personal Protection

#### Exposure Limits:

Ingredient	ACGIH - TLV -	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
None	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: None required under normal conditions of use. For prolonged or repeated contact, wear impervious gloves.

Eye/Face Protection: None required under normal conditions of use.

Hygiene Measures: Practice good workplace hygiene. Do not eat or smoke when handling. Wash hands after use and before eating.

Other/General Protection: None.

### 9. Physical and Chemical Properties

Appearance and Odour	Yellow semi solid. Faint oily odour.	Boiling point	Not applicable	°C/°F
pH (as supplied)	No data available	Melting Point	> 200 / 392	°C/°F
Solubility in Water	Insoluble	Auto Ignition	No data available	°C/°F
Volatile Content by Volume	No data available	Flash Point	> 230/446	°C/°F
Specific Gravity	0.981 @ 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 strong oxidising agents. Avoid temperatures > 200 °C/392 °F.

Hazardous Decomposition: Toxic gases may be liberated at temperatures > 300 °C/572 °F.

Hazardous Polymerisation: Will not polymerise.

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : GREASE - APIEZON AP101**

### 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: > 2 g/kg (rat), Dermal: > 2 g/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 material is non volatile and insoluble in water.

Degradability: The product has limited biodegradability in aerobic conditions; PTFE biologically inert.

### 13. Disposal Considerations

The product and its packaging must be disposed of in accordance with local and national regulations. The product must not be incinerated due to liberation of toxic gases at temperatures > 300 °C/572 °F. Unused product may be returned for reclamation.

### 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

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : GREASE - APIEZON AP101**

### 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.

#### United States Regulatory Information

All materials contained in this product are on the U.S. Toxic Substances Control Act (TSCA).

#### 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: D2B.

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 "APEIZON AP101 GREASE" Safety Data. Issue date: January 2010.

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME : GREASE - APIEZON AP101**

### 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); 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; STEL - Short Term Exposure Limit; TLV - threshold limit value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-Weighted Average; US DOT - US Department of Transportation; WHMIS - Workplace Hazardous Materials Information System.

### Revisions:

July 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.