

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : WAX - APIEZON W & W40

1. Product and Company Identification

Product name: Apiezon Wax W, Apiezon Wax W40
Synonyms: None
Item Numbers: Apiezon Wax W: H023-01-014; H111-76-007
Apiezon Wax W40: H023-01-015

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2. Composition/Information on Ingredients

Ingredient	% Weight	CAS No	Hazard class*	Risk phrase*
Wax W: Petroleum Residuum	100	64741-56-6	Not applicable	Not applicable
Wax W40: Petroleum Residuum	100	64741-56-6 8012-95-1	Not applicable Not applicable	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 at ambient temperature. There is the danger of burns when handling/applying hot wax. Trace amounts of hydrogen sulphide and sulphur dioxide are liberated at elevated temperatures.

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

Eye Effects: No hazards in normal use at ambient temperature. There is the danger of burns when handling/applying hot wax.

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- Skin Effects:** No hazards in normal use at ambient temperature. When using W40, repeated and prolonged skin contact may cause skin disorders. There is the danger of burns when handling/applying hot wax.
- Ingestion/Oral Effects:** No hazards in normal use at ambient temperature.
- Inhalation Effects:** No hazards in normal use at ambient temperature. Trace amounts of hydrogen sulphide and sulphur dioxide are liberated at elevated temperatures.

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

4. First Aid Measures

- Eyes:** Irrigate with copious quantities of cold water. If irritation persists, seek medical attention.
- Skin:**
Cold wax: Wash with soap and water. If irritation persists, seek medical attention.
Hot wax: Flush affected area with cold water. Do not remove wax. Cover with a sterile dressing and obtain medical attention.
- Ingestion/Oral:** Do not induce vomiting. Obtain medical attention.
- Inhalation:** If overcome by fumes, remove from source. If breathing problems occur, a qualified individual should administer oxygen or artificial respiration as indicated. Obtain 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 identified. Hazardous decomposition products: Trace amounts of hydrogen sulphide and sulphur dioxide are liberated at elevated temperatures.
- 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

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6. Accidental Release Measures

Wear suitable protective equipment to prevent contact with eyes. Collect the spill in containers and dispose of safely: see Section 13 "Disposal Considerations".

7. Handling and Storage

Handling: No special precautions required.

Storage: No special precautions required.

8. Exposure Controls/Personal Protection

Exposure Limits:

Ingredient	ACGIH - TLV -	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
Wax fume	2 mg/m ³ - 8 H TWA	Not applicable	2 mg/m ³ TWA 6 mg/m ³ (STEL)

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. Wear heat resistant gloves when handling/applying hot wax.

Eye/Face Protection: None required under normal conditions of use. Wear eye protection when handling/applying hot wax.

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

Apiezon Wax W

Appearance and Odour	Black solid. Odourless at ambient temperature.	Boiling point	Not applicable	°C/°F
pH (as supplied)	No data available	Softening Point	80-90 / 176-194	°C/°F
Solubility in Water	Insoluble	Auto Ignition	> 400 / 752	°C/°F
Volatile Content by Volume	No data available	Flash Point	338 / 640	°C/°F
Specific Gravity	1.055 @ 20 °C / 68 °F			
Vapour Pressure (mbar)	6 x 10 ⁻⁹ @ 20 °C	Vapour Pressure (Torr)	4.5 x 10 ⁻⁹ @ 68 °F	

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Apiezon Wax W40

Appearance and Odour	Black solid. Odourless at ambient temperature.	Boiling point	Not applicable	°C/°F
pH (as supplied)	No data available	Softening Point	45 / 113	°C/°F
Solubility in Water	Insoluble	Auto Ignition	> 400 / 752	°C/°F
Volatile Content by Volume	No data available	Flash Point	320 / 608	°C/°F
Specific Gravity	1.017 @ 20 °C / 68 °F			
Vapour Pressure (mbar)	8×10^{-8} @ 20 °C	Vapour Pressure (Torr)	6×10^{-8} @ 68 °F	

10. Stability and Reactivity

Stability: Stable.

Material/Conditions to Avoid: Apiezon Wax W: Avoid temperatures > 150 °C/302 °F. Avoid strong oxidising agents.
Apiezon Wax W40: Avoid temperatures > 105 °C/221 °F. Avoid strong oxidising agents.

Hazardous Decomposition: Trace amounts of hydrogen sulphide and sulphur dioxide are liberated at elevated temperatures.

Hazardous Polymerisation: Will not polymerise.

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: > 2 g/kg (rat)*, Dermal: > 2 g/kg (rabbit) *

LC50 value: No data available.

* Data applies to Apiezon Wax W40 only.

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 is insoluble in water.

Degradability: Wax W is not regarded as inherently biodegradable.
Wax W40 base oil is slowly biodegradable in aerobic conditions.

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13. Disposal Considerations

The product and its packaging must be disposed of in accordance with local and national regulations. The product may be incinerated.

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

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

United States Regulatory Information

All ingredients contained in this product are included in 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 applicable

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

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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 "APIEZON WAX W" Safety Data Sheet. Issue Date : January 2006.
- M & I Materials Ltd "APIEZON WAX W40" Safety Data Sheet. Issue Date : January 2006.

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; EPA - Environmental Protection Agency; 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; 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:

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

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