Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

This version replaces all previous versions

SECTION 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Material name: Apiezon Wax W100.

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

Product use: Medium hardness vacuum sealing / mounting wax.
Uses advised against: None.

1.3 Details of the supplier of the substance or mixture

Company: M&I Materials Limited, Hibernia Way, Trafford Park, Manchester, M32 0ZD, UK.
Telephone: +44 (0)161 864 5409.
Email: apiezontech@mimaterials.com

1.4 Emergency telephone

Emergency telephone: +44 (0)161 864 5409.
Opening hours: 9:00am – 5:00pm (Mon – Fri).

1.5 Other comments

National Poisons Information Service: NPIS contact details

Country	Organisation/Company	Address	Web Address
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	www.npis.org

The NPIS does not provide poisons information to members of the public - you should contact your general practitioner or telephone NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales).

SECTION 2. Hazards Identification

This product is not classified as hazardous and this document has been compiled for information purposes, in accordance with regulation REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and OSHA hazard communication guidelines.

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567): Not classified.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567): No symbol or signal word.

2.3 Other hazards

Traces of hydrogen sulphide may be liberated at high temperatures. Hydrogen sulphide may accumulate in confined spaces and is highly toxic if inhaled in sufficient concentrations. See 4.2 for further information. Contact with hot material can cause thermal burns.

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SECTION 3. Composition/Information on Ingredients

3.1 Substance

Not applicable.

3.2 Mixture

Composition:

Constituent	CAS Number EC Number EU REACH No	Classification	Concentration (%w/w)
Residues (petroleum), vacuum	64741-56-6 265-057-8 Not applicable	None	50 - 60%
Residual oils (petroleum) solvent dewaxed	64742-62-7 265-166-0 Not applicable	None	40 - 50%

All constituents are listed on the TSCA inventory.

SECTION 4. First Aid Measures

4.1 Description of first aid measures

General advice: Have the product container, label or Safety Data Sheet with you when calling the emergency number, or a physician.
Inhalation: If inhalation of mists, fumes or vapour causes irritation remove to fresh air. If casualty does not rapidly recover seek medical attention.
Skin: In the case of contact with hot product flush affected area with cold water, do not attempt to remove wax. Cover with sterile dressing and obtain medical attention.
Eyes: If in contact with hot product cool the area by flushing with large amounts of cold water. Do not attempt to remove the wax from the burn area. Seek medical attention. If in contact with cold product flush the eye with copious amounts of water. If persistent irritation occurs seek medical attention.
Ingestion: Do not induce vomiting, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

If exposed to hydrogen sulphide fumes the effects will depend on the airborne concentration - 0.02ppm odour threshold, smell of rotten eggs; 10ppm eye and respiratory tract irritation.

4.3 Indication of any immediate medical attention and special treatment needed

In the case of burns do not remove the wax from the skin, it will provide an airtight sterile covering, which will eventually fall away with the scab as the burn heals. If removal is attempted mineral oil (not mineral spirits) or a mineral oil-based ointment may be applied to help soften the product.
Treat symptomatically. Do not induce vomiting.

SECTION 5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, dry powder, foam or water fog.
Unsuitable extinguishing media: Do not use water jets.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: Combustion products include carbon monoxide.

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5.3 Advice for fire fighters

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.
Further information: Cool closed containers exposed to fire with water spray.

SECTION 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to protective measures listed in sections 7 and 8.
Avoid contact with eyes. Hot product should be handled so that there is no risk of burns.

6.2 Environmental precautions

No special precautions required.

6.3 Methods and material for containment and cleaning up

Molten material should be allowed to cool and solidify before collecting for disposal.

6.4 Reference to other sections

For disposal considerations see section 13.
Refer to protective measures listed in sections 7 and 8.

SECTION 7. Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid contact with hot material to prevent burns.
For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feed.

7.3 Specific end use(s)

Opened containers should be properly resealed. No special precautions required.
For proper and safe use of this product, please refer to the label.

SECTION 8. Exposure Controls/ Personal Protection

8.1 Control parameters

At ambient temperature wax has very low volatility, so development of fumes is highly unlikely. At high temperatures hydrogen sulphide may be released.
Occupational Exposure Limits:

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Component	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Residues (petroleum), vacuum	64741-56-6	TWA	No relevant control parameters	M&I Materials
Residual oils (petroleum) solvent dewaxed	64742-62-7	TWA	No relevant control parameters	M&I Materials
Hydrogen sulphide	-	8hr TWA STEL	7mg/m^3 (5ppm) 14mg/m^3 (10ppm)	EH40

Biological occupational exposure limits: N/A
Derived No Effect Level (DNEL): N/A
Predicted No Effect Concentration (PNEC): N/A

8.2 Exposure controls

Engineering measures: The extent of these protection measures depends on the actual risks in use. In most cases very small quantities of material are used. If heating to apply wax ensure adequate ventilation.
Personal protective equipment:

Respiratory protection: Not required for normal use.
Skin protection: Not required for normal use.
Hand protection: Wear heat resistant gloves when handling or applying hot wax.
Recommended gloves:
Heat resistant gloves: Level 2 (250°C)
Material: Polyamide, natural latex rubber.
Glove Type: Reusable.
Standards: EN 388: 2141A; **EN 407:** X2XXXX
Break through time: > 480 min.
Glove thickness: >0.5 mm
Remarks: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection: Wear eye protection when handling/applying hot wax. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Eye washes should be available for emergency use.

SECTION 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Black solid. Liquid at high temperature.
Odour: None at ambient.
pH: Not applicable.
Melting point: 50 to 60°C.
Initial boiling point and boiling range: >320°C.

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Flash point: 320°C.
Flammability (solid, gas): Data not available.
Upper/lower flammability or explosive limits: Data not available.
Vapour pressure: Approx 4.5 x 10^{-9} Torr at 20°C.
Vapour density: Not applicable.
Relative density: 1.025 at 20°C.
Water solubility: Insoluble.
Solubility: Soluble in aromatic hydrocarbon solvents.
Partition coefficient: n-octanol/water: Data not available.
Auto-ignition temperature: >400°C.
Decomposition temperature: Data not available.
Viscosity: Not applicable.
Explosive properties: Data not available.
Oxidising properties: Data not available.

9.2 Other information

Not applicable.

SECTION 10. Stability and Reactivity

10.1 Reactivity

Stable under normal conditions of use.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Data not available.

10.4 Conditions to avoid

Temperatures >115°C.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Hydrogen sulphide.

SECTION 11. Toxicological Information

11.1 Information on toxicological effects

Likely routes of exposure: Skin and eyes are the most likely routes for exposure. Inhalation of vapours at high temperatures is possible. Accidental ingestion may occur.
Product:
Acute oral toxicity: Low toxicity: LD50 (Rat, female): >2000mg/kg.
Acute dermal toxicity: Expected to be of low toxicity: LD50 (Rat, female): >2000mg/kg.
Acute inhalation toxicity: Low toxicity by inhalation. Avoid vapours from heated materials which may cause irritation.
Skin corrosion/irritation: Expected to be slightly irritating. Hot material may cause burns.
Eye corrosion/irritation: Expected to be slightly irritating. Hot material may cause burns.
Respiratory or skin sensitization: Not expected to be a skin sensitizer.
Aspiration hazard: Not considered an aspiration hazard.

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Carcinogenicity/mutagenicity: Not considered a mutagenic hazard or carcinogen. This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

SECTION 12. Ecological Information

When used and/or disposed of as indicated, no adverse environmental effects are foreseen. Ecotoxicological effects based on knowledge of similar substances.

12.1 Toxicity

Product: Expected to be practically non-toxic.

12.2 Persistence and degradability

Not regarded as inherently biodegradable.

12.3 Bioaccumulative potential

Has the potential to bioaccumulate.

12.4 Mobility in soil

Product has low mobility in soil.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No other adverse effects envisaged.

SECTION 13. Disposal Considerations

13.1 Waste treatment methods

Product: Do not contaminate any lakes, streams, ponds, groundwater or soil. Avoid flushing into drains.
Product and packaging must be disposed of in accordance with local and national regulations.
May be incinerated.
Unused product may be returned for reclamation.
Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste code: Uncleaned packaging code 15-01-02 - Empty packaging contaminated with residues of non-hazardous substances.

SECTION 14. Transport Information

Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID) regulations.

14.1 UN number

Not relevant.

14.2 UN proper shipping name

Not relevant.

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14.3 Transport hazard class
Not relevant.

14.4 Packing group
Not relevant.

14.5 Environmental hazards
Not relevant.

14.6 Special precautions for user
Not relevant.

SECTION 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Product is not subject to Authorisation under REACH.
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Not applicable.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable.
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.
Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable.
UK REACH List of substances subject to authorisation (Annex XIV): Not applicable.
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation: Not applicable.

All constituent substances in this product are listed in the TSCA inventory.

15.2 Chemical safety assessment
A chemical safety assessment has been performed for this substance.

SECTION 16. Other Information

Compiled according to regulation 1907/EC/2006, as amended by UK REACH Regulations SI 2019/758 and OSHA hazard communication guidelines.

16.1 Changes from last issue
Section 1.4 - Emergency telephone number has changed and is no longer 24/7.

16.2 Abbreviations and acronyms
TWA: Limit Value - eight hours
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German

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Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International code for the construction and equipment of ships carrying dangerous chemicals in bulk : with standards and guidelines relevant to the code.

16.3 Key literature references and sources for data

Company data.

16.4 Classification and procedure used to derive the classification

Further information classification of the substance: Not classified.
Classification procedure: Based on product data or assessment.

The information provided in this Safety Data Sheet is correct to our best knowledge, information and belief at the date of its publication. It is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.

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