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

1.1 Product Identifier
Material Name: Apiezon Wax W.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Product Use: Hard vacuum sealing / mounting wax; etch resist.
Uses advised against: None.

1.3 Details of the supplier of the substance or mixture
Company: M&I Materials Ltd., Hibernia Way, Trafford Park, Manchester, M32 0ZD, UK.
Telephone: +44 (0)161 864 5409.
Emergency Telephone: +44 (0)161 864 5439.
Email: apiezontech@mimaterials.com.

2. Hazards Identification

This product is not classified as hazardous and this document has been compiled for information purposes, in accordance with Regulation 1907/EC/2006, Annex II, as amended by Regulation (EU) No. 453/2010 and OSHA hazard communication guidelines.

2.1 Classification of the substance or mixture

2.2 Label elements
Regulation (EC) No 1272/2008 (CLP): 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.

3. Composition/Information on Ingredients

3.1 Substance
Composition:
<table>
<thead>
<tr>
<th>Constituent</th>
<th>CAS Number</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purified Hydrocarbon</td>
<td>64741-56-6</td>
<td>100%</td>
</tr>
</tbody>
</table>

All constituents are listed on the TSCA inventory.

4. First Aid Measures

4.1 Description of first aid measures

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.

5. Fire Fighting Measures

5.1 Extinguishing media
Carbon dioxide, dry powder, foam or water fog. Do not use water jets.

5.2 Special hazards arising from the substance or mixture
Combustion products include carbon monoxide.

5.3 Advice for fire fighters
Protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
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.

7. Handling and Storage

7.1 Precautions for safe handling
Avoid contact with hot material to prevent burns.

7.2 Conditions for safe storage, including any incompatibilities
No special precautions required.

7.3 Specific end use(s)
No special precautions required.

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.

<table>
<thead>
<tr>
<th>Substance</th>
<th>8hr TWA</th>
<th>STEL</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen sulphide</td>
<td>7mg/m³ (5ppm)</td>
<td>14mg/m³ (10ppm)</td>
<td>EH40</td>
</tr>
</tbody>
</table>
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8.2 Exposure controls
The level of controls depends on the use. In most cases very small quantities of material are used. If heating to apply wax ensure adequate ventilation. Eye washes should be available for emergency use.

Respiratory protection: None required.
Hand protection: Wear heat resistant gloves when handling or applying hot wax.
Eye protection: Wear eye protection when handling/applying hot wax.

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: 80 to 90°C.
Initial boiling point and boiling range: >320°C.
Flash point: 338°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: 1.055 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.

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 >150°C.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products
Hydrogen sulphide.
### 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.

**Acute oral toxicity:** Low toxicity: LD₅₀ > 5000mg/kg.

**Acute dermal toxicity:** Expected to be of low toxicity: LD₅₀ > 2000mg/kg.

**Acute inhalation toxicity:** Low toxicity by inhalation. Avoid vapours from heated materials which may cause irritation.

**Skin/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.

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

### 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

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

The product does not meet criteria for toxicity which requires further assessment. It is not considered PBT or vPvB.

#### 12.6 Other adverse effects

No other adverse effects envisaged.

### 13. Disposal Considerations

#### 13.1 Waste treatment methods

Product and packaging must be disposed of in accordance with local and national regulations. May be incinerated. Unused product may be returned for reclamation.

### 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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