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

1.1 Product Identifier
Material Name: Apiezon J Oil.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Product use: Vacuum sealing oil.
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 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 Mixture
Composition:

<table>
<thead>
<tr>
<th>Constituent</th>
<th>CAS Number</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purified Hydrocarbon</td>
<td>8012-95-1</td>
<td>&gt;95%</td>
</tr>
<tr>
<td>Purified Hydrocarbon</td>
<td>64741-56-6</td>
<td>&lt;5%</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: Wash with soap and water
Eyes: Irrigate with copious amounts of water
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.
5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>5.1 Extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon dioxide, dry powder, foam or water fog. Do not use water jets.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.2 Special hazards arising from the substance or mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combustion products include carbon monoxide.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5.3 Advice for fire fighters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.</td>
</tr>
</tbody>
</table>

6. Accidental Release Measures

<table>
<thead>
<tr>
<th>6.1 Personal precautions, protective equipment and emergency procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spilt product constitutes a slip hazard. Avoid contact with eyes.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6.2 Environmental precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevent entry into drains, sewers and watercourses.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6.3 Methods and material for containment and cleaning up</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can be wiped from surfaces and residues cleaned with water and detergent.</td>
</tr>
</tbody>
</table>

7. Handling and Storage

<table>
<thead>
<tr>
<th>7.1 Precautions for safe handling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avoid contact with hot material to prevent burns.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7.2 Conditions for safe storage, including any incompatibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>No special precautions required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7.3 Specific end use(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No special precautions required.</td>
</tr>
</tbody>
</table>

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>8.1 Control parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>At ambient temperature oil has very low volatility, so development of fumes is highly unlikely. At high temperatures hydrogen sulphide may be released.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Workspace Exposure Limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance</td>
</tr>
<tr>
<td>Hydrogen sulphide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>8.2 Exposure controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye washes should be available for emergency use.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Respiratory protection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None required.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin protection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wear coveralls.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hand protection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wash hands after use. For prolonged or repeated skin contact gloves are recommended.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eye protection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None required.</td>
</tr>
</tbody>
</table>
## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown/black high viscosity liquid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Pungent.</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Freezing point</td>
<td>-1°C.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt;320°C.</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;350°C (open cup)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Data not available.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Data not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Approx 8 x 10^{-9} Torr at 20°C.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.95 at 20°C.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>n-octanol/water: Data not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt;400°C.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Data not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>3330cSt at 40°C.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Data not available.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Data not available.</td>
</tr>
</tbody>
</table>

### 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 >200°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 >2000mg/kg.

#### Acute dermal toxicity

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

#### Acute inhalation toxicity

Low toxicity by inhalation. Avoid vapours from heated
12. Ecological Information

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Repeated and prolonged skin contact may cause dry skin or irritation.</td>
</tr>
<tr>
<td>Eye corrosion/irritation</td>
<td>May cause transient irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not expected to be a skin sensitizer.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not considered an aspiration hazard.</td>
</tr>
<tr>
<td>Carcinogenicity/mutagenicity</td>
<td>Not considered a mutagenic hazard or carcinogen.</td>
</tr>
<tr>
<td>Materials which may cause irritation</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
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</tr>
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</table>

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

14.1 UN number
Not relevant.

14.2 UN proper shipping name
Not relevant.

14.3 Transport hazard class
Not relevant.

14.4 Packing group
Not relevant.
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14.5 Environmental hazards
Not relevant.

14.6 Special precautions for user
Not relevant.

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.
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.

16. Other Information

16.1 Changes from last issue:
Section 1 - Email contact details.
Section 3 - Composition table.

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.