

Safety Data Sheet

January 2016

Page 1 of 5

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

1.1 Product Identifier

Material Name: Apiezon PFPE 501.

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

Product Use: High temperature sealing / lubricating vacuum grease, inert.

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: RussellMartin@mimaterials.com.

2. Hazards Identification

This product is not classified as hazardous and therefore there is no legal requirement to provide an SDS in Europe. This document has been compiled for information purposes, in accordance with Regulation (EU) No 453/2010.

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008 (CLP): Not classified.

2.2 Label elements

Regulation (EC) No 1272/2008 (CLP): No symbol or signal word.

2.3 Other hazards

Thermal decomposition at temperatures >300°C can lead to release of toxic and corrosive gases.

3. Composition/Information on Ingredients

ation on 3.2 Mixture

CAS No.: 69991-67-9. CAS No.: 9002-84-0.

4. First Aid Measures

4.1 Description of first aid measures

Inhalation: None envisaged due to the low vapour pressure of the substance.

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

Inhalation: No known effect.

Skin: Contact with skin may cause slight irritation. **Eyes:** Contact with eyes may cause slight irritation. **Ingestion:** Ingestion may cause nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment required.

5. Fire Fighting Measures

5.1 Extinguishing media

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

www.apiezon.com



Safety Data Sheet

January 2016

Page 2 of 5

5.2 Special hazards arising from the substance or mixture

Combustion products include fluorine compounds, such as hydrogen fluoride.

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

Spilt product constitutes a slip hazard. Avoid contact with eyes.

6.2 Environmental precautions

No special precautions required.

6.3 Methods and material for containment and cleaning up

Can be wiped from surfaces and residues cleaned with water and detergent.

7. Handling and Storage

7.1 Precautions for safe handling

No special precautions required.

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 grease has very low volatility, so development of fumes is highly unlikely. At temperatures approaching 300°C, if thermal decomposition occurs, hydrogen fluoride, carbonyl difluoride and other toxic fumes may be released.

8.2 Exposure controls

The level of controls depends on the use. In most cases very small quantities of material are used. Eye washes should be available for emergency use.

Respiratory protection: None required.

Hand protection: Wash hands after use. For prolonged or repeated skin contact

gloves are recommended. **Eye protection:** None required.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Semi-solid white grease.

Odour: None. **pH**: Not applicable.

Melting point: Data not available.

Initial boiling point and boiling range: >270°C.

Flash point: Not flammable.

Flammability (solid, gas): Not flammable.

Upper/lower flammability or explosive limits: Data not available.

Vapour pressure: 1.32 x 10⁻¹² Torr at 25°C.

Vapour density: Not applicable.

www.apiezon.com



Safety Data Sheet

January 2016 Page 3 of 5

Relative density: 2.003 @ 25°C. Water solubility: Insoluble. Solubility: Data not available.

Partition coefficient: n-octanol/water: Data not available.

Auto-ignition temperature: Data not available. **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 >250°C.

10.5 Incompatible materials

Strong acids, alkalis and oxidizing agents; alkaline metals; alkaline earth metals; powdered metals; halogenated compounds.

10.6 Hazardous decomposition products

May liberate toxic fluorine compounds (hydrogen fluoride, carbonyl fluoride) at temperatures $>300^{\circ}$ C.

11. Toxicological Information

11.1 Information on toxicological effects

Likely routes of exposure: Skin and eyes are the most likely routes for exposure. Accidental ingestion may occur. Inhalation is not expected to be a relevant route of exposure.

Acute oral toxicity: Low toxicity: LD50 >2000mg/kg.

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

Acute inhalation toxicity: Low volatility makes inhalation unlikely.

Skin corrosion/irritation: Repeated and prolonged skin contact may cause dry skin

or irritation.

Eye corrosion/irritation: May cause transient irritation.

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.



Safety Data Sheet

January 2016

Page 4 of 5

12. Ecological Information

When used and/or disposed of as indicated no adverse environmental effects are foreseen.

12.1 Toxicity

Data not available.

12.2 Persistence and degradability

Data not available.

12.3 Bioaccumulative potential

Data not available.

12.4 Mobility in soil

Data not available.

12.5 Results of PBT and vPvB assessment

Data not available.

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. Must not be incinerated due to liberation of toxic gases at temperatures >300°C.

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.

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.

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.

www.apiezon.com



Safety Data Sheet

January 2016

Page 5 of 5

15.2 Chemical safety assessment

A chemical safety assessment has been performed for this substance.

16. Other Information

Compiled according to regulation 1907/EC/2006 Annex II, as amended by Regulation (EU) No.453/2010.

16.1 Changes from last issue:

No significant changes.

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.