

# Safety Data Sheet

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

### 1.1 Product Identifier

**Material Name:** MIDEL 7131.

**EU REACH No.:** 01-2120104110-86-0000.

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

**Product Use:** Dielectric fluid.

**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 5411.

**Emergency Telephone:** +44 (0)161 864 5439.

**Email:** mideltech@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

**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

None.

## 3. Composition/Information on Ingredients

### 3 Substance

**CAS No.:** 68424-31-7.

Description: Fatty acids, C5-10 (linear and branched), mixed esters with pentaerythritol.

#### Composition:

Constituent	CAS Number	Contents
Fatty acid tetra esters	68424-31-7	>99.5%
Performance enhancing additives	Proprietary	<0.5%

All constituents are listed on the TSCA inventory. Additives used in this product are a trade secret, but do not lead to classification of the substance as hazardous.

## 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. Obtain medical attention if irritation develops.

**Eyes:** Irrigate with copious amounts of water. Obtain medical attention if irritation develops.

**Ingestion:** Do not induce vomiting, obtain medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

No adverse effects expected.

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**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, ABF foam or water fog. Do not use water jets.

**5.2 Special hazards arising from the substance or mixture**  
None.

**5.3 Advice for fire fighters**  
Self-contained breathing apparatus may be required.

## 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**  
Spilt product constitutes a slip hazard. Avoid contact with skin and eyes.

**6.2 Environmental precautions**  
Do not contaminate any lakes, streams, ponds, groundwater or soil. Avoid flushing into drains. In the event of a large spillage contain product as thoroughly as possible and dispose of in accordance with local regulations.

**6.3 Methods and material for containment and cleaning up**  
Soak up spilt material with absorbent granules for disposal.

## 7. Handling and Storage

**7.1 Precautions for safe handling**  
Avoid eye and prolonged skin contact.

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

**7.3 Specific end use(s)**  
Exposure to air should be minimised. Opened containers should be properly resealed.

## 8. Exposure Controls/ Personal Protection

**8.1 Control parameters**  
No relevant control parameters.

**8.2 Exposure controls**  
Eye washes should be available for emergency use.  
**Respiratory protection:** Not required for normal use.  
**Skin protection:** Wear coveralls.  
**Hand protection:** Wash hands after use. For prolonged or repeated skin contact gloves are recommended.  
**Eye protection:** If splashes are likely to occur wear safety glasses.

## 9. Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties**  
**Appearance:** Pale amber liquid.  
**Odour:** Faintly sweet.  
**pH:** Not applicable.  
**Freezing point:** -56°C.  
**Initial boiling point and boiling range:** >300°C.

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**Flash point:** 260°C (closed cup).  
**Flammability (solid, gas):** Non-flammable.  
**Upper/lower flammability or explosive limits:** Data not available.  
**Vapour pressure:** <0.001Pa at 20°C.  
**Vapour density:** Not applicable.  
**Relative density:** 0.97 at 20°C.  
**Water solubility:** <1mg/l.  
**Solubility:** Not applicable.  
**Partition coefficient:** log Pow: >10  
**Auto-ignition temperature:** No auto-ignition expected.  
**Decomposition temperature:** Data not available.  
**Viscosity:** 29mm<sup>2</sup>/s at 40°C.  
**Explosive properties:** Non-explosive.  
**Oxidising properties:** Non-oxidising.

### 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 oxidising agents.

### 10.6 Hazardous decomposition products

None.

## 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, OECD 401.

**Acute dermal toxicity:** Expected to be of low toxicity: LD50 >2000mg/kg, OECD 402.

**Acute inhalation toxicity:** Low volatility makes inhalation unlikely.

**Skin corrosion/irritation:** Not irritating, skin, OECD 404.

**Eye corrosion/irritation:** Not irritating, eye, OECD 405.

**Respiratory or skin sensitisation:** Not sensitising, skin, OECD 406.

**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.

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### 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

Salmo Gairdneri LC50 (96h), OECD 203: >1000mg/l.

Daphnia Magna EI50 (48h), OECD 202: >1000mg/l.

#### 12.2 Persistence and degradability

Readily biodegradable.

#### 12.3 Bioaccumulative potential

No potential for bioaccumulation.

#### 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.

#### 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.

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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

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

### 16.1 Changes from last issue:

Section 1 - Email contact details.

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.