

#### Safety Data Sheet

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**SECTION 1. Identification of the** 1.1 **Product identifier** Substance/Mixture and of the Material name: MIDEL 7131. Company/Undertaking EU REACH No.: 01-2120104110-86-XXXX. 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 Limited, Hibernia Way, Trafford Park, Manchester, M32 0ZD, UK. Telephone: +44 (0)161 864 5411. Email: mideltech@mimaterials.com 1.4 Emergency telephone Emergency telephone: +44 (0)161 864 5439. Opening hours: 24/7. 1.5 Other comments National Poisons Information Service: NPIS contact details Organisation/Company Country Address Emergency number United Kingdom National Poisons Dudley Road 0344 892 0111 B18 7QH Birmingham Information Service (Birmingham Centre) City Hospital 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 This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

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Any recommendation or suggestion relating to the use, storage, handling or properties of the products supplied by M&I Materials Limited or any member of its group, either in sales and technical literature or in response to a specific enquiry or otherwise, is given in good faith but it is for the customer to satisfy itself of the suitability of the product for its own particular purposes and to ensure that the product is used correctly and safely in accordance with the manufacturer's written instructions. © M&I Materials Limited.

levels of 0.1% or higher.



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SECTION 3. Composition/Information on Ingredients	<ul> <li>3.1 Substance Not applicable.</li> <li>3.2 Mixture Description: Fatty acids, C5-10 (linear and branched), mixed esters with pentaerythritol. Composition:</li> </ul>				
	Fatty acid tetra esters	68424-31-7 270-291-9 01-2120104110-86-XXXX	None	>99.5%	
	Performance enhancing additives	Proprietary	None	<0.5%	
		isted on the TSCA inventory. not lead to classification of the			
SECTION 4. First Aid Measures	<ul> <li>4.1 Description of first aid measures</li> <li>General advice: Have the product container, label or Safety Data Sheet with you whe calling the emergency number, or a physician.</li> <li>Inhalation: None envisaged due to the low vapour pressure of the substance.</li> <li>Skin: Wash with soap and water. Obtain medical attention if irritation develops.</li> <li>Eyes: Irrigate with copious amounts of water. Obtain medical attention if irritation develops.</li> <li>Ingestion: Do not induce vomiting, obtain medical attention.</li> </ul>				
	4.2 Most important	nt symptoms and effects, bo expected.	oth acute and dela	yed	
		any immediate medical atter t required. Treat symptomatic			
SECTION 5. Fire Fighting Measures	<ul> <li>5.1 Extinguishing media</li> <li>Suitable extinguishing media: Carbon dioxide, dry powder, ABF foam or</li> <li>Unsuitable extinguishing media: Do not use water jets.</li> </ul>		am or water fog.		
	5.2 Special hazards arising from the substance or mixture Specific hazards during firefighting: None.				
	5.3 Advice for fire Special protective contained breathing	equipment for firefighters: V	Vear full protective	clothing and self-	

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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. Spilt product constitutes a slip hazard. Avoid contact with skin and eyes.				
	6.2 Environmental pre groundwater, or soil the product as thoro regulations.	cautions: Do no . Avoid flushing in	to drains. In the e	event of a large sp	illage, conta
	6.3 Methods and Methods for cleani absorbent material, container for dispose contaminated surface dispose of contamin	ng up: Soak up (e.g. sand, earth, al according to loo ce thoroughly. Cle	spilt material with diatomaceous ea cal / national regu	non-combustible arth, vermiculite) a lations (see section	on 13). Clear
	6.4 Reference to For disposal conside Refer to protective r	erations see section			
SECTION 7. Handling and Storage	<ul> <li>7.1 Precautions f</li> <li>Advice on safe har</li> <li>For personal protect</li> <li>7.2 Conditions for</li> <li>Requirements for s</li> <li>dry, cool and well-ve</li> <li>food, drink and anim</li> </ul>	ndling: Avoid eye tion see section 8 or safe storage, in storage areas an entilated place. Ke	and prolonged sl ncluding any inc d containers: Ke	ompatibilities eep containers tigh	
	7.3 Specific end of Exposure to air show For proper and safe	uld be minimised.			erly reseale
SECTION 8. Exposure Controls/ Personal Protection	8.1 Control parameters Occupational Exposure Limits:				
	Component	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
	Fatty acid tetra esters	68424-31-7	TWA	8 ppm 50 mg/m <sup>3</sup>	M&I Materials
	Biological occupat Derived No Effect I Predicted No Effec	Level (DNEL): N/	A		
	8.2 Exposure cor Engineering measure		of these protection	n measures deper	nds on the

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	Personal protective equipment:
	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.
	Recommended gloves:
	Material: Nitrile rubber.
	Break through time: > 480 min.
	Glove thickness: 0.5 mm.
	<b>Remarks:</b> Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
	Eye protection: If splashes are likely to occur wear safety glasses. 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	9.1 Information on basic physical and chemical properties
Properties	Appearance: Pale amber liquid.
	Odour: Faintly sweet.
	pH: Not applicable.
	Freezing point: -56°C.
	Initial boiling point and boiling range: >300°C.
	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.
	Kinematic viscosity: 29mm <sup>2</sup> /s at 40°C.
	Explosive properties: Non-explosive.
	Oxidising properties: Non-oxidising.
	9.2 Other information
	Surface tension: No data available.
	Particle size: No data available.
SECTION 10. Stability and Reactivity	10.1 Reactivity
	Stable under normal conditions of use.
	10.2 Chemical stability
	Stable under normal conditions of use.





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	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.
SECTION 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. Product:
	Acute oral toxicity: Low toxicity: LD50 (Rat, female): >2000mg/kg, OECD 401.
	Acute dermal toxicity: Expected to be of low toxicity: LD50 (Rat, female):
	>2000mg/kg, OECD 402.
	Acute inhalation toxicity: Low volatility makes inhalation unlikely. LD50 (Rat, female)
	> 5.1 mg/L air.
	Skin corrosion/irritation: Not irritating, skin (Rabbit), OECD 404.
	Eye corrosion/irritation: Not irritating, eye (Rabbit), OECD 405.
	Respiratory or skin sensitisation: Not sensitising, skin (Guinea pig), 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.
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:
	Toxicity to fish: Salmo gairdneri LC50 (96h), OECD 203: >1000mg/l.
	Toxicity to daphnia and other aquatic invertebrates: Daphnia magna El50 (48h), OECD 202: >1000mg/l.
	12.2 Persistence and degradability
	Product: 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.

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	<ul> <li>12.6 Endocrine disrupting properties         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.     </li> <li>12.7 Other adverse effects         No other adverse effects envisaged.     </li> </ul>
SECTION 13. Disposal Considerations	<ul> <li>13.1 Waste treatment methods</li> <li>Product: Do not contaminate any lakes, streams, ponds, groundwater or soil. Avoid flushing into drains.</li> <li>Product and packaging must be disposed of in accordance with local and national regulations.</li> </ul>
	May be incinerated. Unused product may be returned for reclamation. <b>Contaminated packaging:</b> Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. <b>Waste code:</b> 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.
	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	<ul> <li>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</li> <li>REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Not applicable.</li> <li>REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable.</li> <li>Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.</li> </ul>





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	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.
	<b>15.2 Chemical safety assessment</b> 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.
	<b>16.1 Changes from last issue</b> Complete review due to update in regulations.
	<b>16.2 Abbreviations and acronyms</b> 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 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.
	<b>16.4 Classification and procedure used to derive the classification</b> <b>Further information classification of the mixture:</b> Not classified. <b>Classification procedure:</b> 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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