

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1577



Revision date: 14 Dec 2022

Print date: 15 Dec 2022

Version: 5.0

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Pyrogel Fuel paste

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name/designation:

Pyrogel Fuel paste

UFI:

ORMK-6EFT-Q910-GGX1

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

Use of the substance/mixture:

Fuel paste for heating and keeping food warm in the intended and suitable containers. Grill lighter fluid.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Panodis GmbH

Rotmurgstrasse 33

72270 Baiersbronn

GERMANY

+49 (0) 74 49 - 91 31 10

Telefax: +49 (0) 74 49 - 91 31 20

E-mail: info@panodis.eu

Website: www@panodis.eu

E-mail (competent person): info@panodis.eu

1.4 Emergency phone number

24h: +49 551 19240 (german and english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
Flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	Calculation

2.2 Label elements

Labelling according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard pictograms:



GHS02
Flame

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Signal word: Danger

Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

Precautionary statements - General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Precautionary statements - Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

Precautionary statements - Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statements - Storage

P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary statements - Disposal

P501 Dispose of contents/container to industrial incineration plant.

Additional information:

May cause drowsiness or dizziness.

2.3 Other hazards

Adverse human health effects and symptoms:

Repeated exposure may cause skin dryness or cracking. May cause eye irritation.

Other adverse effects:

Special danger of slipping by leaking/spilling product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredients:

Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Content
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH No.: 01-2119457610-43	ethanol Flam. Liq. 2 (H225) Danger	60 - 90 weight-%
CAS No.: 3734-33-6 EC No.: 223-095-2	denatonium benzoate Acute Tox. 4 (H302), Eye Irrit. 2 (H319), STOT SE 3 (H335), Skin Irrit. 2 (H315) Warning	< 1 weight-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3 REACH No.: 01-2119457290-43	Methyl ethyl ketone (MEK) Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	< 1 weight-%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	Propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger	< 1 weight-%

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. Get medical advice/attention if you feel unwell.

In case of skin contact:

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. In case of skin irritation, consult a physician.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Dizziness, Dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, Extinguishing powder, carbon dioxide (CO₂), Sand, Extinguishing blanket

5.2 Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

Hazardous combustion products:

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂).

5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Heating causes rise in pressure with risk of bursting. Move undamaged containers from immediate hazard area if it can be done safely. Beware of reignition. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Personal precautions:

Special danger of slipping by leaking/spilling product. Remove persons to safety. Eliminate all ignition sources if safe to do so. Do not breathe gas/vapour/aerosol.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2 For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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6.3 Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Disposal: see section 13.

For cleaning up:

Clean floors and contaminated objects with: Water

6.4 Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5 Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advices on safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Take precautionary measures against static discharge. Do not breathe gas/vapour/aerosol. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Highly flammable: Keep away from sources of ignition - No smoking.

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

Avoid contact with eyes and skin. Wash hands before breaks and after work. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Material, solvent-resistant. Keep/Store only in original container.

Hints on storage assembly:

Keep away from combustible material. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions:

Protect from sunlight. Store in a well-ventilated place.

7.3 Specific end use(s)

Recommendation:

Security burning paste for heating and keeping food warm in the intended and suitable containers. Grill lighter fluid. Observe instructions for use.

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SECTION 8: Exposure controls / Personal protection

8.1 Control Parameters

8.1.1 Occupational exposure limit values

Limit value type (country)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,920 mg/m ³)
IOELV (EU)	Methyl ethyl ketone (MEK) CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
WEL (GB)	Methyl ethyl ketone (MEK) CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (899 mg/m ³)
WEL (GB)	Propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 400 ppm (999 mg/m ³) ② 500 ppm (1,250 mg/m ³)

8.1.2 Biological limit values

No data available.

8.1.3 DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	114 mg/m ³	① DNEL consumer ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	1,900 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m ³	① DNEL consumer ② Acute - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	343 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	206 mg/kg	① DNEL consumer ② Long-term - dermal, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	87 mg/kg	① DNEL consumer ② Long-term - oral, systemic effects

Substance name	PNEC value	① PNEC type
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.96 mg/L	① PNEC aquatic, freshwater
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.79 mg/L	① PNEC aquatic, marine water
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	580 mg/kg	① PNEC sewage treatment plant

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Substance name	PNEC value	① PNEC type
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	3.6 mg/kg	① PNEC sediment, freshwater
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	2.9	① PNEC sediment, marine water
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.63	① PNEC soil
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	2.75 mg/kg	① PNEC aquatic, intermittent release

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Technical ventilation of workplace

8.2.2 Personal protection equipment



Eye/face protection:

Recommendation: Eye glasses with side protection (EN 166).

Skin protection:

Recommendation / Filling and transfer: Tested protective gloves must be worn (EN ISO 374).

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: $\geq 0,5$ mm

Breakthrough time: ≥ 480 min

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Recommendation: Draw up and observe skin protection programme.

Respiratory protection:

Usually no personal respiratory protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device (full mask or mouthpiece) with filter: A

Other protection measures:

Recommendation: Wear anti-static footwear and clothing

8.2.3 Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid - viscous (Gel/Paste)

Colour: not determined

Odour: like Alcohol

Safety relevant basic data

Parameter	Value	at	① Method ② Remark
pH	7 - 8	20 °C	
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	$\approx 77 - 79$ °C		
Decomposition temperature	<i>not determined</i>		

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Parameter	Value	at	① Method ② Remark
Flash point	≈ 17 °C		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	3.3 - 18 Vol-%		
Vapour pressure	< 15 kPa	25 °C	
Vapour density	<i>not determined</i>		
Density	<i>not determined</i>		
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	miscible		
Partition coefficient: n-octanol/water, log P (o/w)	<i>not determined</i>		
Dynamic viscosity	≥ 1,500 mPa* s	20 °C	
Kinematic viscosity	<i>not determined</i>		

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Vapours can form explosive mixtures with air. Violent reaction with: Oxidising agent, strong

10.4 Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

No known hazardous decomposition products. In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂).

Further information

No data available.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

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May cause eye irritation.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

No data available.

11.2 Information on other hazards

Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Based on available data, the classification criteria are not met.

Additional ecotoxicological information:

No data available.

12.2 Persistence and degradability

Biodegradation:

Readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Accumulation / Evaluation:

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment options

Appropriate disposal / Product:

For recycling, contact manufacturer. Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Do not allow to enter into surface water or drains.

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Appropriate disposal / Package:

Completely emptied packages can be recycled.





Other disposal recommendations:

The allocation of waste code numbers / waste names must be carried out in accordance with the European Waste Catalogue (EWC). Collect in closed and suitable containers for disposal.

13.2 Additional information

Waste for disposal is to be classified and labelled.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI-/IATA-DGR)
14.1 UN number or ID number			
UN 1993	UN 1993	UN 1993	UN 1993
14.2 UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (Ethanol)	FLAMMABLE LIQUID, N.O.S. (Ethanol)	FLAMMABLE LIQUID, N.O.S. (Ethanol)	FLAMMABLE LIQUID, N.O.S. (Ethanol)
14.3 Transport hazard class(es)			
 3	 3	 3	 3
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
No	No	No	No
14.6 Special precautions for user			
Special Provisions: 274, 601 Limited Quantity (LQ): 5 L Classification code: F Tunnel restriction code: (E) Remark: Classification according to ADR 2.2.3.1.4	Special Provisions: not determined Limited Quantity (LQ): not determined Classification code: F Remark: -	Special Provisions: not determined Limited Quantity (LQ): not determined EmS-No.: F-E; S-E Remark: -	Special Provisions: not determined Limited Quantity (LQ): not determined Remark: -

14.7 Maritime transport in bulk according to IMO instruments

not relevant

Additional information:

Small amounts: Transport as "Limited Quantity" according to chapter 3.4 ADR/RID.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU legislation

Other regulations (EU):

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.1.2 National regulations

No data available.

15.2 Chemical Safety Assessment

No data available.

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SECTION 16: Other information

16.1 Indication of changes

Changes executed in version 5.0:

Section 1: UFI

Section 10: Stability and Reactivity

Section 11: Toxicological Information

Section 12: Ecological Information (non-mandatory)

Section 13: Disposal Considerations (non-mandatory)

General revision

16.2 Abbreviations and acronyms

See overview table at www.euphrac.eu

16.3 Key literature references and sources for data

European Chemicals Agency (ECHA): <https://www.echa.europa.eu>

ECHA, C&L Inventory: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database>

ECHA, Registered substances: <https://echa.europa.eu/information-on-chemicals/registered-substances>

GESTIS (Gefahrstoffinformationssystem der DGUV): <https://www.gestis.dguv.de/search>

Hörath Gefährliche Stoffe und Gemische, 8. Auflage, Dr. Angela Schulz

Safety data sheets of the manufacturers

16.4 Classification for mixtures and used evaluation method according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
Flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	Calculation

16.5 Relevant H- and EUH-phrases

Hazard statements	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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16.6 Training advice

No data available.

16.7 Additional information

The information in this safety data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.