

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 08-May-2015

Print date: 01-Jul-2015

Version: 2.0

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Pyrogel Security burning paste

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

1.1. Product identifier

Trade name/designation:

Pyrogel Security burning paste

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

Use of the substance/mixture:

Security burning 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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Panodis GmbH

Rotmurgstrasse 33

72270 Baiersbronn

GERMANY

Telephone: +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 telephone number

24h: +49 551 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

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

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS02

Flame

Signal word: Danger

hazard statements for physical hazards	
H225	Highly flammable liquid and vapour.
Precautionary statements	
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.

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Precautionary statements Response

P302 + P352.1	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.
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Precautionary statements Disposal

P501.1	Dispose of contents/container to industrial incineration plant.
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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

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 64-17-5 EC No.: 200-578-6	ethanol Flam. Liq. 2 Danger H225	60 - 90 Wt %
CAS No.: 78-93-3 EC No.: 201-159-0	butanone; ethyl methyl ketone STOT SE 3, Flam. Liq. 2, Eye Irrit. 2 Danger H225-H319-H336-EUH066	< 1 Wt %
CAS No.: 67-63-0 EC No.: 200-661-7	propan-2-ol STOT SE 3, Flam. Liq. 2, Eye Irrit. 2 Danger H225-H319-H336	< 1 Wt %
CAS No.: 3734-33-6 EC No.: 223-095-2	denatonium benzoate STOT SE 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2 Warning H302-H315-H319-H335	< 1 Wt %

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

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 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:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion:

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

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

Drowsiness, 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.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. 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.

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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 skin and eyes. 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.

Storage class: 3 - Flammable liquids

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	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	① 1,000 ppm (1,920 mg/m ³)
IOELV (EU)	butanone; ethyl methyl ketone CAS No.: 78-93-3	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
WEL (GB)	butanone; ethyl methyl ketone CAS No.: 78-93-3	① 200 ppm (600 mg/m ³) ② 300 ppm (899 mg/m ³)
WEL (GB)	propan-2-ol CAS No.: 67-63-0	① 400 ppm (999 mg/m ³) ② 500 ppm (1,250 mg/m ³)

8.1.2. biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

No data available

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 (DIN EN 166).

Skin protection:

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

Suitable material: Butyl caoutchouc (butyl rubber)

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

Breakthrough time (maximum wearing 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 respirative 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:

Wear anti-static footwear and clothing

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid - viscous (Gel/Paste)

Colour: not determined

Odour: like Alcohol

Safety relevant basis data

parameter		at °C	Method	remark
pH	7 - 8	20 °C		
Melting point/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	$\approx 77 - 79$ °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	≈ 17 °C			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<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>			

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parameter		at °C	Method	remark
Bulk density	<i>not determined</i>			
Water solubility (g/L)	miscible			
Partition coefficient: n-octanol/ water	<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 stable under storage at normal ambient temperatures.

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

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral 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.

Eye damage/irritation:

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

May cause eye irritation.

Respiratory or skin sensitisation:

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

STOT-single exposure:

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

Additional information:

No data available.

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.

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12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	remark
1233-45-1	not dangerous part	—	
78-93-3	butanone; ethyl methyl ketone	Yes, rapidly	

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

not relevant

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64-17-5	ethanol	—
1233-45-1	not dangerous part	—
78-93-3	butanone; ethyl methyl ketone	—
67-63-0	propan-2-ol	—
3734-33-6	denatonium benzoate	—

nicht relevant

12.6. 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.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

Other disposal recommendations:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Collect in closed and suitable containers for disposal.

13.2. Additional information

No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
1993	1993	1993	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)

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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: not determined Limited quantity (LQ): 5 L Hazard identification number (Kemler No.): 33 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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not determined

SECTION 15: Regulatory information

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

No data available

15.2. Chemical Safety Assessment

No data available.

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

- 2.1. Classification of the substance or mixture
- 2.2. Label elements
- 2.3. Other hazards
- 11.1. Information on toxicological effects

16.2. Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data

No data available

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

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

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

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.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.