

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Compilation date: 06.09.2018

Revision number 1

Revision date: 07.09.2018

Product name: **Powerflame Brennpaste**

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

1.1 Product identifier:

Product name: **Powerflame Brennpaste**

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

Use of the substance/mixture: Fuel and fire-lightning paste

1.3 Details of the supplier of the safety data sheet

Company name: MATFER s.a.s.
9-11, rue du Tapis-Vert F-93260 Les Lilas
+33 (0)1 43 62 60 40
matfercontact@matfer.com / www.matferbourgeat.com/ Docs+
Responsible for the Safety Data Sheet establishment: info@powerflame.ch
Responsible Department: **Powerflame GmbH**

1.4 Emergency telephone number:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 2, H225 Highly flammable liquid and vapour
Eye. Irrit. 2, H319 Causes serious eye irritation

2.2 Label elements

Classification according to Regulation

(EC) No. 1272/2008 [CLP]

Pictograms



Signal words

GHS 02 and GHS 07
Danger and Attention

Hazard statements

H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P262 Do not get in eyes, on skin, or on clothing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

2.3 Other hazards

Vapours may form explosive mixture with air.



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SECTION 3: Composition/information on ingredients

3.1 Mixtures

Chemical characterization:

Mixture of the following substances with non-hazardous admixtures.

Hazardous components:

EC-No.	Chemical name	Quantity
CAS-No.		
Index-No.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No.		
200-578-6	Ethanol	75-94%
64-17-5		
603-002-00-5	Flam. Liq. 2, Eye Irrit 2 ; H225 H319	
01-2119457610-43		
201-159-0	Butanon	2%
78-93-3		
606-002-00-3	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	
02-2119752535-35		

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:**After inhalation:**

Remove contaminated soaked clothing immediately.

Move to fresh air in case of accidental inhalation of vapours.

In the event of symptoms refer for medical treatment.

After contact with skin:

Wash hands with water as a precaution..

After contact with eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

After ingestion:

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

Summon a doctor immediately

4.2 Most important symptoms and effects, Both acute and delayed

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptoms.

SECTION 5: Firefighting measures

5.1 Extinguish media

Suitable extinguish media:Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), water-spray.**Unsuitable extinguish media:**

Full water jet.

5.2 Special hazards arising from the substance or mixture

Fire may produce:

Carbon monoxide and carbon dioxide

5.3 Advice for firefighters:

Use breathing apparatus with independent air supply.

Protective suit.

Additional information:

Keep away from sources of ignition - No smoking.

Vapours are heavier than air and spread along ground.



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The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective Equipment and emergency procedures

Avoid contact with skin, eyes and clothing.

In case of insufficient ventilation, wear suitable respiratory equipment.

Ensure adequate ventilation.

Keep away sources of ignition.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/ground water.

6.3 Methods and material for containment and Cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel in to suitable container for disposal.

6.4 Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

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

Advice on protection against fire and explosion:

Do not smoke - volatile.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements for storage rooms

And vessels:

Advice on storage compatibility:

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

Incompatible with:

Strong oxidizing agents

Strong acids and strong bases.

Further information on storage conditions:

Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s):

Fuel and fire-lighting paste

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS-No.	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
78-93-2	2-Butanon	200	600		TWA (8h)	WEL
		300	899		STEL (15min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8h)	WEL
					STEL (15min)	WEL



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Biological Monitoring Guidance Values (EH40)

CAS-No.	Substance	Parameter	Value	Test material	Sampling time
78-93-3	2-Butanon (Methyl ethyl ketone)	2-Butanon (MEK)	70 $\mu\text{mol/L/l}$	urine	Post shift

8.2 Exposure controls

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas.
Pay attention to explosion protection guidelines.

Protective and hygiene measures:

Do not inhale vapours.
Wash hands before breaks and at the end of workday.
When using do not eat, drink or smoke.
Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothes before re-use.

Respiratory protection:

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

Hand protection:

No personal respiratory protective equipment normally required.
Protective gloves resistant to chemicals made off butyl, minimum coat thickness 0,7 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye/face protection:

Safety goggles with side protection (EN 166).
Eye wash bottle with pure water (EN 15154).

Skin protection:

Long sleeved clothing (EN 368).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: viscous
Colour: Colourless
Odour: Alcoholic

Changes in the physical state:

Initial boiling point and boiling range: >80 °C
Flashpoint: 15 °C
Ignition temperature: 486 °C

Explosions limits:

Lower: 3.3 Vol. %
Upper: 18.9 Vol. %

Vapour pressure at 20 °C: 6 hPa

Density at 20 °C: 0.81 – 0.84 g/cm³

Water solubility at 20 °C: Partially miscible.



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Product name: **Powerflame Brennpaste****Viscosity:****dynamic:**

8000 - 22000 mPas

kinematic:

-

Flow time at 15 °C:

>9 min

Test method: 4 DIN EN ISO 2431

Solvent content:

>90 %

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents

Reactions with alkali metals.

Reactions with earth alkali metals.

10.4 Conditions to avoid

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

10.5 Incompatible materials

Strong oxidizing agents

Strong acids and strong bases.

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects**Acute toxicity**

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

No toxicological data available.

CAS-No.	Chemical name	Exposure routes	Method	Dose	Species	Source
64-17-5	Ethanol	oral	LD50	6200 mg/kg	Rat	
		inhalative (4h) vapour	LC50	95.6 mg/l	Rat	

Irritation and corrosivity:

Causes serious eye irritation.

Skin irritation: Not classified.

Sensitizing effects

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

Carcinogenic/mutagenic/toxic**Effects for reproduction**

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

STOT-single exposure

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

Severe effects after repeated or prolonged 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 on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Practical experience**Other observations:**

Ingestion or inhalation of high concentrations may cause injuries to gastrointestinal tract, liver, kidneys and central nervous system.

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Inhalation of vapours in high concentration can cause narcotic effects.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.



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SECTION 12: Ecological information

12.1 Toxicity

Ecological data are not available.

CAS-No.	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
64-17-5	Ethanol					
	Acute fish toxicity	LC50	8140 mg/l	96 h	Golden orfe	
	Acute crustacea toxicity	EC50	9268 – 14221 mg/l	48 h	Daphnia magna	

12.2 Persistence and degradability

The product is readily biodegradable to OECD criteria.

12.3 Bioaccumulative potential

Low bio-accumulation can be estimated because of low log Po/w.

CAS-No.	Chemical name	log Po/w
64-17-5	Ethanol	-0.31

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB-assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6 Other adverse effects

Further information:

Low hazard to waters.

Do not flush into surface water or sanitary sewer system.

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Advice on disposal:

Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.Waste disposal number of waste
Form residues/unused products:
200113MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR
COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES)
INCLUDING SEPARATELY COLLECTED FRACTIONS; separately
collected fractions (except 15 01); solvents
Classified as hazardous waste.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.



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SECTION 14: Transport information

14.1UN-Number: UN 1993
14.2UN proper shipping name: FLAMMABLE LIQUID, N.O.S.(Ethanol)
14.3Transport hazard class(es): 3
14.4Packing group: III
Hazard label: 3



Classification code: F1
Limited quantity (LQ): 5L / 30kg
Transport category: 3
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1UN-Number: UN 1993
14.2UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Ethanol)
14.3Transport hazard class(es): 3
14.4Packing group: III
Hazard label: 3



Classification code: F1
Limited quantity (LQ): 5L / 30kg

Marine transport (IMDG)

14.1UN-Number: UN 1993
14.2Un proper shipping name: FLAMMABLE LIQUID, N.O.S. (Ethanol)
14.3Transport hazard class(es): 3
14.4Packing group: III
Hazard label: 3



Marine pollutant: No
Limited quantity (LQ): 5L / 30kg
EmS: F-E, S-E



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Air transport (ICAO)

14.1 UN-Number:	UN 1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Ethanol)
14.3 Transport hazard class(es):	3
14.4 Packing group:	III
Hazard label:	3



Limited quantity (LQ) Passenger:	Y344 / 10L
IATA-packing instructions-Passenger:	355
IATA-max. quantity-Passenger:	30L (*)
IATA-packing instructions-Cargo:	366
IATA-max. quantity-Cargo:	30L (*)

Other applicable information (air transport)

(*) 3.3.3.2 IATA DGR

14.5 Environmental hazards

ENVIRONMENTAL HAZARDOUS no

14.6 Special precautions for user

Take the usual precautions when handling with chemicals.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

SECTION 15: Regulatory information

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

EU-regulatory information

1999/13/EC (VOC): >94.2 %

National regulatory information

Employment restrictions:

Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D):

1 – slightly water contaminating

15.2 Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.



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SECTION 16: Other information

Relevant H- and EUH-phrases:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms:

Abbreviation	Full text and meaning
ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen sur le transport des marchandises dangereuses par Route
Asp. Tox. 1	Aspiration hazard, Hazard Category 1
CAS-No.	Chemical Abstracts Service (division of the American Chemical Society),
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Flam. Liq. 3	Flammable liquids, Hazard Category 3
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG-Code	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
PBT	Persistent, Bioaccumulative and Toxic
RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer
VOC	Volatile Organic Compounds (USA, EU)
vPvB	very Persistent and very Bioaccumulative

Further information

Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)