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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.12.2023

Version number 1

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

· 1.1 Product identifier

· Trade name: Brennpaste Bartscher 48-200

· Article number: 500160

- · UFI: XV00-70QJ-Q00W-FJ26
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
  - Application of the substance / the mixture Chafing fuel
- 1.3 Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Bartscher GmbH Franz-Kleine-Str. 28 33154 Salzkotten www.bartscher.de
- *Informing department:* Tel: +49(0)5258-971-0 Fax: +49(0)5258-971-120
- **1.4 Emergency telephone number:** Giftnotruf Berlin Tel. +49 (0)30 30686 700 Helpdesk in German and in English

# **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture
   Classification according to Regulation (EC) No 1272/2008
  - GHS02 flame

Flam. Sol. 1 H228 Flammable solid.



Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms



· Signal word Danger

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<ul> <li>Hazard sta</li> </ul>	atements	
H228 Flam	nmable solid.	
H319 Caus	ses serious eye irritation.	
· Precautio	onary statements	
P102	Keep out of reach of children.	
P210	Keep away from open flames No smoking.	
P337+P31	3 If eye irritation persists: Get medical advice/attention.	
· Additional	information:	
	of whatever capacity that is delivered to the general public sh danger according to EN ISO 11683.	nall be fitted with a tactile
· 2.3 Other ha	azards	
· Results of	PBT and vPvB assessment	
• <b>PBT:</b> Not a	applicable.	
• <i>vPvB:</i> Not		
	tion of endocrine-disrupting properties	
	t contains substances suspected of having endocrine disrupt	ting properties (List II and
78-93-3 buta	anone	List II

# SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· Description: Ethanol-containing burning paste solidified by a gelling agent.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43- 0372	ethanol	50 - 100%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-X	butanone	< 2.5%

· Additional information For the wording of the listed hazard phrases refer to section 16.

### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact

Remove contaminated clothing immediately.

Rinse with warm water.

If skin irritation continues, consult a doctor.

· After eye contact

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

In case of permanent aches and pains please go and see the doctor.

- After swallowing Drink copious amounts of water and provide fresh air. Instantly call for doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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### SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
  - · Suitable extinguishing agents
  - Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Carbon monoxide (CO)

- 5.3 Advice for firefighters
  - Protective equipment:

In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.

· Additional information Cool endangered containers with water spray.

## **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Keep away from ignition sources Ensure adequate ventilation Avoid contact with the product.

Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.

Complete cleaning with water.

6.4 Reference to other sections
 See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment.
 See Section 13 for information on disposal.

# **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

First, put the can with the burning paste in the holding device or below the heater before igniting it. Let the can burn off only when standing vertically.

Keep it away from inflammable materials, e.g. tablecloths and decorating papers.

Keep out of the reach of children.

- Information about protection against explosions and fires:
   Character is a series of a series of the serie
- Store it away from ignition sources or open fire.
- · Handling Avoid contact with the eyes.
- 7.2 Conditions for safe storage, including any incompatibilities • Storage
  - · Requirements to be met by storerooms and containers:
  - Store only in the original container.
  - Keep container tightly closed.
  - Ensure sufficient ventilation.
  - Store in cool location.
  - Information about storage in one common storage facility: Store away from foodstuffs.
  - Keep away from strong oxidizing, alkalis and acidic materials.
  - *Further information about storage conditions:* Protect from heat and direct sunlight.

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• 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

• Components with limit values that require monitoring at the workplace: WEL: workplace exposure limit

OEL: Occupational Exposure Limit

IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

64-17-5 et				
, , J		alue: 1920 m	ıg/m³, 1000 ppm	
78-93-3 bi				
		alue: 600 mg	g/m³, 300 ppm j/m³, 200 ppm	
WEL (Gre	at Britain)			g/m³, 300 ppm j/m³, 200 ppm
·DNELs		·		
64-17-5 et	hanol			
Dermal	DNEL (work	er, long-term, s	ystemic)	8,238 mg/kg bw/day (human)
Inhalative	DNEL (work	er, long-term, s	ystemic)	380 mg/m³ (human)
	DNEL (cons	umer, long-term	i, systemic)	114 mg/m <sup>3</sup> (human)
78-93-3 bi	utanone			
Oral	DNEL (cons	umer, long-term	i, systemic)	31 mg/kg bw/day (human)
Dermal	DNEL (work	er, long-term, s	ystemic)	1,161 mg/kg bw/day (human)
	DNEL (cons	umer, long-term	i, systemic)	412 mg/kg bw/day (human)
Inhalative	DNEL (work	er, short-term, s	systemic)	900 mg/m³ (human)
	DNEL (work	er, long-term, s	ystemic)	600 mg/m³ (human)
	DNEL (cons	umer, short-terr	n, systemic)	450 mg/m³ (human)
	DNEL (cons	umer, long-term	i, systemic)	106 mg/m³ (human)
· PNECs				
64-17-5 et		<b>`</b>		<u>×</u>
•	a (freshwate	,	0.96 mg/L (	
•	ia (marine wa	,	0.79 mg/L (	
	-	reatment Plant		
PNEC soil			0.63 mg/kg	
	liment (fresh	,		edim. dw (.)
	liment (marin		2.9 mg/kg s	
		2.75 mg/L (	,	
PNEC oral		380 mg/kg f		
-		ological limit v	alues:	
78-93-3 bi				
BMGV (Gr		70 µmol/L Medium: urine Sampling time: ı Parameter: buta		
· Additio	nal informa	<i>tion:</i> The lists th	nat were valio	d during the compilation were used as basis. (Contd. on pa

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(Contd. from page 4) · 8.2 Exposure controls Individual protection measures, such as personal protective equipment · **Breathing equipment:** Use breathing protection in case of insufficient ventilation. · Hand protection Protective gloves. Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Nitrile rubber, NBR • Eye/face protection Safety glasses recommended if possibility of liquid splashes exists. SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties General Information Colour: Blue · Odour: alcohol-like Not determined Melting point/freezing point: · Boiling point or initial boiling point and 78 °C boiling range · Flammabilitv Highly flammable. · Lower and upper explosion limit 2.5 Vol % (64-17-5 ethanol) · Lower: 13.5 Vol % (64-17-5 ethanol) · Upper: · Flash point: 12 °C SADT pH at 20 °C 7 · Viscosity: · Kinematic viscosity Not applicable. Not applicable. · dynamic: · Solubility Dispersible · Water: Vapour pressure at 20 °C: 57 hPa · Density and/or relative density · Density at 20 °C 0.808 g/cm<sup>3</sup> Particle characteristics See section 3. · 9.2 Other information Appearance:

· Form: gel · Important information on protection of health and environment, and on safety. · Self-inflammability: Product is not selfigniting. (Contd. on page 6)

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· Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
Solvent content:	
· Organic solvents:	> 77.5 %
· Information with regard to physical hazard	t l
classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Flammable solid.
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void
<ul> <li>Pyrophoric liquids</li> </ul>	Void
· Pyrophoric solids	Void
• Self-heating substances and mixtures	Void
<ul> <li>Substances and mixtures, which emit</li> </ul>	
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
<ul> <li>Desensitised explosives</li> </ul>	Void

## SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

## **SECTION 11: Toxicological information**

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

#### · LD/LC50 values that are relevant for classification:

### 64-17-5 ethanol

Oral	LD50	15,010 mg/kg (rat) (OECD 401)	
Dermal	LD50	> 20,000 mg/kg (rabbit)	
Inhalative	LC50	> 114 mg/l/1h (mouse) (OECD 403)	
	LC50	125 mg/l/4h (rat) (OECD 403)	
78-03-3 h	78-03-3 hutanone		

#### 78-93-3 butanone

Oral LD50 2,193 mg/kg (rat) (OECD 423)

· Skin corrosion/irritation

More frequent and continuous contact with the skin may result in irritation of the skin.

· Serious eye damage/irritation Irritation in case of direct contact

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

List II

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- (Contd. from page 6) • 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 toxicological information:
   Repeated dose toxicity

# 64-17-5 ethanol

Oral	NOAEL (90d)	< 9,700 mg/kg bw/day (mouse)

Inhalative NOAEC (28d) > 7,380 mg/m<sup>3</sup> /ppm u (rat)

### · 11.2 Information on other hazards

#### · Endocrine disrupting properties

78-93-3 butanone

# SECTION 12: Ecological information

<ul> <li>Aquatic toxici</li> </ul>	ty:
64-17-5 ethano	
LC50	14,200 mg/l (fish)
EC50 (static)	5,012 mg/l/48h (Ceriodaphnia dubia) (ASTM E729-80)
EC50 (static)	675 mg/l/96h (Chlorella vulgaris) (OECD 201)
EC50	275 mg/l/120h (Algae)
LC50 (dynamic)	15,300 mg/l/96h (Pimephales promelas) (US EPA E03-05)
78-93-3 butano	ne
EC50 (static)	> 345 mg/l/48h (Daphnia magna) (OECD 202)
EC50 (static)	1,240 mg/l/96h (Raphidocelis subcapitata) (OECD 201)
LC50 (static)	2,973 mg/l/96h (Pimephales promelas) (OECD 203)
<ul> <li>Other informa</li> <li>12.3 Bioaccum</li> <li>12.4 Mobility in</li> </ul>	tion: The product is biodegradable. <i>tion:</i> The product is biodegradable. <i>ulative potential</i> No further relevant information available. <i>soil</i> No further relevant information available. <i>PBT and vPvB assessment</i>

- **PBT:** Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
  - Additional ecological information:
  - · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

## **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Let the b	ans are completely empty before recycling. oxes burn off completely and dispose of them in the collection of recyclable materials ng on municipal regulations.	
· · · · · · · · · · · · · · · · · · ·	n waste catalogue	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES	
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals	
07 01 04*	other organic solvents, washing liquids and mother liquors	
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	
15 01 00	packaging (including separately collected municipal packaging waste)	
15 01 04	metallic packaging	
HP3	Flammable	
HP4	Irritant - skin irritation and eye damage	

### · Uncleaned packagings:

· Recommendation:

Empty containers are to be introduced to the scrap processing and/or to the reconditioning. Packing drums which are not duly emptied belong to hazardous waste. Disposal must be made according to official regulations.

14.1 UN number or ID number • ADR/RID, IMDG, IATA	UN3175
14.2 UN proper shipping name	
· ADR/RID	3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL
·IMDG	SOLIDS CONTAINING FLAMMABLE LIQUID,
·IATA	N.O.S. (ETHANOL (ETHYL ALCOHOL)) SOLIDS CONTAINING FLAMMABLE LIQUID,
	N.O.S. (ETHANOL)
14.3 Transport hazard class(es)	
· ADR/RID	
· Class	4.1 (F1) Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
	4.1
· IMDG, IATA	
	4.1 Flammable solids, self-reactive substances

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14.4 Packing group · ADR/RID, IMDG, IATA	II
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
14.6 Special precautions for user	Warning: Flammable solids, self-reactive substances, polymerizing substances and solid desensitized explosives
· Kemler Number:	40
· EMS Number:	F-A,S-I
<ul> <li>Stowage Category</li> </ul>	В
14.7 Maritime transport in bulk accordi	ng to
IMO instruments	Not applicable.
· Transport/Additional information:	
<ul> <li>ADR/RID</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g 2 E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL) 4.1, II

### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - · Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

### · Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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Regulation (EC) No 273/2004 on drug precursors

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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#### · National regulations

· Water hazard class:

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is contained.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This data sheet considers labelling requirements of Reglation (EU) 2022/692 adapting Regulation (EC) No 1272/2008 (18th ATP of the CLP Regulation).

This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

#### · Relevant phrases

The phrases specified here are no labelling elements for the product but repeat the properties of the ingredients from section 3.

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.

#### · Department issuing data specification sheet:

DEKRA This Safety Data Sheet has been drawn up in cooperation with: DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany, phone: (+49) 511 42079 - 0, reach@dekra.com.

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#### • Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2 Flam. Sol. 1: Flammable solids – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3