Safety data sheet

BINDUNGEN

according to 1907/2006/EC, Article 31

Printing date 14.11.2016 Version number 31 Revision: 14.11.2016 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: PETEC Copper Pastes-Spray · Article number: 70350 · 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 Lubricant · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: PETEC Verbindungstechnik GmbH Wüstenbuch 26 96132 Schlüsselfeld / Deutschland Telefon +49 (0) 9555 80994-0 Fax +49 (0) 9555 80994-25 Homepage www.petec.de E-Mail: info@petec.de • Further information obtainable from: Technische Auskunft: info@petec.de · 1.4 Emergency telephone number: Telefon +49 (0) 9555 80994-0 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. GHS07 Skin Irrit. 2 H315 Causes skin irritation. H304 Asp. Tox. 1 May be fatal if swallowed and enters airways. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. · 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 GHS02 GHS07 · Signal word Danger · Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H315 Causes skin irritation. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P280 *Wear protective gloves / eye protection / face protection.*

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

- Dispose of contents/container to hazardous or special waste collection point. P501
- · Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Tlam. Gas 1, H220; Press. Gas C, H280	25-<50%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane 🚸 Flam. Gas 1, H220; Press. Gas C, H280	10-<20%
EC number: 927-510-4 Reg.nr.: 01-2119475515-33-xxxx	Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	5-<10%
EC number: 921-024-6 Reg.nr.: 01-2119475514-35-xxxx	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, < 5 % n-hexane Flam. Liq. 2, H225; & Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane Tlam. Gas 1, H220; Press. Gas C, H280	5-<10%
CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42-xxxx	copper substance with a Community workplace exposure limit	2.5-<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 complaints. Take affected persons into fresh air and keep quiet.

- · After skin contact:
- Immediately wash with water and soap and rinse thoroughly. Immediately remove any clothing soiled by the product.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: Do not induce vomiting; call for medical help immediately.



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• 4.2 Most important symptoms and effects, both acute and delayed Breathing difficulty

Headache Dizziness Dizziness

Coughing

Nausea

• **4.3 Indication of any immediate medical attention and special treatment needed** If swallowed or in case of vomiting, danger of entering the lungs. Later observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: Foam Fire-extinguishing powder

 $Carbon\ dioxide$

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures. Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.
- · Additional information
- Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources.
6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in once of secondoc into water course.

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

· 6.4 Reference to other sections See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin and eyes.

• *Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.*

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Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles:
- Observe official regulations on storing packagings with pressurised containers.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

CAS: 106-97-8 butane

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

CAS: 7440-50-8 copper

WEL Short-term value: 2** mg/m³ Long-term value: 0.2* 1** mg/m³ *fume **dusts and mists (as Cu)

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

- Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:** Filter AX
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. • *Material of gloves*

- Nitrile rubber, NBR
- (EN 374)

Recommended thickness of the material: ≥ 0.45 mm

- · Penetration time of glove material
- ≥240 min

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

(EN 166)

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• *Body protection:* Solvent resistant protective clothing (EN 13034-6)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physi · General Information	cal and chemical properties
· Appearance:	
Form:	Aerosol
Colour:	Copper coloured
· Odour:	Petrol-like
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	$< 0 ^{\circ}C$
· Flash point:	Not applicable, as aerosol.
· Ignition temperature:	>200 °C
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Density at 20 °C:	0.65421 g/cm ³
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	71.4 %
VOC (EC)	467.4 g/l
• 9.2 Other information	No further relevant information available.

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:
- Aldehyde

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.

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SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

EC50/48 h 3 mg/l (daphnia)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, < 5 % n-hexane

EC50/48 h 3 mg/l (daphnia)

· 12.2 Persistence and degradability No further relevant information available.

• 12.3 Bioaccumulative potential No further relevant information available.

- · 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Harmful to aquatic organisms

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Printing date 14.11.2016 Version number 31 Revision: 14.11.2016 Trade name: PETEC Copper Pastes-Spray (Contd. of page 6) Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. · 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. · 12.6 Other adverse effects No further relevant information available. **SECTION 13: Disposal considerations** · 13.1 Waste treatment methods · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system. · European waste catalogue 16 05 04* gases in pressure containers (including halons) containing hazardous substances 15 01 04 metallic packaging · Uncleaned packaging: · Recommendation: Disposal must be made according to official regulations. **SECTION 14: Transport information** · 14.1 UN-Number · ADR, RID, ADN, IMDG, IATA UN1950 · 14.2 UN proper shipping name · ADR/RID/ADN UN1950 AEROSOLS · IMDG AEROSOLS · IATA AEROSOLS, flammable · 14.3 Transport hazard class(es)

· Class	2 5F Gases.	
Label	2.1	
· IMDG, IATA		
A		
V		
Class	2.1	
Label	2.1	
14.4 Packing group		
ADR,RID,ADN, IMDG, IATA	Void	
14.5 Environmental hazards:		
Marine pollutant:	No	



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14.6 Special precautions for user	Warning: Gases.
Danger code (Kemler):	-
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of 1 litre
	Category A. For AEROSOLS with a capacity above 1 litre
	Category B. For WASTE AEROSOLS: Category C, Clea
	of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre
	Segregation as for class 9. Stow "separated from" class
	except for division 1.4. For AEROSOLS with a capacit
	above 1 litre: Segregation as for the appropriat
	subdivision of class 2. For WASTE AEROSOLS
	Segregation as for the appropriate subdivision of class 2.
14.7 Transport in bulk according to A	nnex II of
Marpol and the IBC Code	Not applicable.
1	Noi applicable.
Transport/Additional information:	Νοι αρρικασιε.
•	Noi applicable.
Transport/Additional information:	IL
Transport/Additional information: ADR/RID/ADN	
Transport/Additional information: ADR/RID/ADN Limited quantities (LQ)	IL
Transport/Additional information: ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ) Transport category	1L Code: E0 Not permitted as Excepted Quantity 2
Transport/Additional information: ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
Transport/Additional information: ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ) Transport category	1L Code: E0 Not permitted as Excepted Quantity 2
Transport/Additional information: ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code	1L Code: E0 Not permitted as Excepted Quantity 2
Transport/Additional information: ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code IMDG	1L Code: E0 Not permitted as Excepted Quantity 2 D
Transport/Additional information: ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code IMDG Limited quantities (LQ)	1L Code: E0 Not permitted as Excepted Quantity 2 D 1L

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.
- · Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 28, 29
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H220 Extremely flammable gas.H225 Highly flammable liquid and vapour.H280 Contains gas under pressure; may explode if heated.

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Trade name: PETEC Copper Pastes-Spray (Contd. of page 8) H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. · 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 européen sur le transport 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1: Flammable gases – Category 1 Aerosol 1: Aerosols - Category 1 Press. Gas C: Gases under pressure - Compressed gas Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Asp. Tox. 1: Aspiration hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 • * Data compared to the previous version altered.



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