BINDUNGEN

Version number 94 Revision: 02.11.2016 Printing date 14.11.2016 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: PETEC Brake Cleaner · Article number: 70060 · 1.2 Relevant identified uses of the substance or mixture and uses advised against · Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) • Product category PC35 Washing and cleaning products (including solvent based products) · Process category PROC7 Industrial spraying **PROC11** Non industrial spraving · Environmental release category ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) · Application of the substance / the mixture Cleaning material/ Detergent · 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 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. Aerosol 1 GHS09 environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. GHS07 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. Asp. Tox. 1 · 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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Printing date 14.11.2016 Version number 94 Revision: 02.11.2016 Trade name: PETEC Brake Cleaner (Contd. of page 1) · Hazard pictograms GHS07 GHS02 GHS09 · Signal word Danger · Hazard-determining components of labelling: Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, < 5 % n-hexane · Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children. 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. P261 Avoid breathing vapours or spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves. P312 Call a POISON CENTER/doctor if you feel unwell. P391 Collect spillage. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501 Dispose of contents/container to hazardous or special waste collection point. • 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:		
EC number: 927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes	25-<50%
Reg.nr.: 01-2119475515-33-xxxx	♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; STOT SE 3, H336	
EC number: 921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes, <	25-<50%
Reg.nr.: 01-2119475514-35-xxxx		
	� Flam. Liq. 2, H225; � Asp. Tox. 1, H304; � Aquatic Chronic 2, H411; � Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 75-28-5	isobutane	2.5-<5%
EINECS: 200-857-2	🚸 Flam. Gas 1, H220; Press. Gas C, H280	
Reg.nr.: 01-2119485395-27-xxxx		
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EINECS: 204-696-9 CAS: 74-98-6	(C carbon dioxide Press. Gas L, H280 propane Flam. Gas 1, H220; Press. Gas C, H280	ontd. of page 2)         2.5-<5%         2.5-<5%
• Regulation (EC) No 648/2004 on a aliphatic hydrocarbons	detergents / Labelling for contents	≥ 30%

· 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.
- $\cdot$  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
- $\cdot$  Suitable extinguishing agents:
- Foam
- Fire-extinguishing powder
- Carbon dioxide
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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.

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# **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 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. 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:
- $\cdot$  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: 124-38-9 carbon dioxide

WEL Short-term value: 27400 mg/m<sup>3</sup>, 15000 ppm Long-term value: 9150 mg/m<sup>3</sup>, 5000 ppm

• 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.

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Printing date 14.11.2016 Version number 94 Revision: 02.11.2016 Trade name: PETEC Brake Cleaner (Contd. of page 4) · Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device in case of insufficient ventilation. • Recommended filter device for short term use: Filter AX · Protection of hands: Protective gloves 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:  $\geq 0.45$  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) · Body protection: Solvent resistant protective clothing (EN 13034-6) **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Aerosol Colour: Colourless Petrol-like · Odour: · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: Not applicable, as aerosol. Not applicable, as aerosol. · Flash point: >200 °C · Ignition temperature: Product is not explosive. However, formation of explosive air/vapour · Danger of explosion: mixtures are possible. · Density at 20 °C: 0.68987 g/cm3

• Solubility in / Miscibility with water: Not miscible or difficult to mix.

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Viscosity:Dynamic:Not determined.Kinematic:Not determined.Organic solvents:96.5 %VOC (EC)665.9 g/l• 9.2 Other informationNo 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.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative LC50/4 h 771 mg/l (rat)

Hydrocarbons, C7, n-alkanes, isoalkanes, cycloalkanes

 Oral
 LD50
 >5840 mg/kg (rat)

 Dermal
 LD50
 >2920 mg/kg (rat)

Inhalative LC50/4 h > 23.3 mg/l (rat)

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

-	,	· · ·
Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rat)

Inhalative LC50/4 h <25.2 mg/l (rat)

CAS: 75-28-5 isobutane

Inhalative LC50/4 h > 50 mg/l (rat)

CAS: 74-98-6 propane

Inhalative LC50/4 h 20 mg/l (rat)

· Primary irritant effect:

· Skin corrosion/irritation

Causes skin irritation.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

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

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

· 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.* 

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· STOT-single exposure

May cause drowsiness or dizziness.

• STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard

May be fatal if swallowed and enters airways.

## **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: Toxic for fish
- · Additional ecological information:
- · General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

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· 14.2 UN proper shipping name · ADR/RID/ADN	UN1950 AEROSOLS HAZARDOUS	, ENVIRONMENTALLY	
·IMDG	AEROSOLS (Solvent Naph POLLUTANT	nta, Solvent Naphta), MARINE	
·IATA	AEROSOLS, flammable		
· 14.3 Transport hazard class(es)			
· ADR/RID/ADN			
· Class	2 5F Gases.		
·Label	2.1		
· Class	2.1		
·Label	2.1		
· IATA	2.1 2.1		
· 14.4 Packing group			
· ADR,RID,ADN, IMDG, IATA	Void		
· 14.5 Environmental hazards: · Marine pollutant:		Product contains environmentally hazardous substances: Solvent Naphta, Solvent Naphta Vas	
• Special marking (ADR/RID/ADN):	Symbol (fish and tree) Symbol (fish and tree)		
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>Stowage Code</li> </ul>	Warning: Gases. - F-D,S-U SW1 Protected from sources SW22 For AEROSOLS with Category A. For AEROSOL	s of heat. a maximum capacity of 1 litre: S with a capacity above 1 litre: EROSOLS: Category C, Clear	
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Version number 94 Revision: 02.11.2016 Printing date 14.11.2016 Trade name: PETEC Brake Cleaner (Contd. of page 8) SG69 For AEROSOLS with a maximum capacity of 1 litre: · Segregation Code Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2. · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADR/RID/ADN 1L $\cdot$  Limited quantities (LQ) Code: E0 · Excepted quantities (EQ) Not permitted as Excepted Quantity · Transport category 2 D · Tunnel restriction code · IMDG · Limited quantities (LQ) lLCode: E0 • Excepted quantities (EQ) Not permitted as Excepted Quantity UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY · UN ''Model Regulation'': HAZARDOUS

## 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
- E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- 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.

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.

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(Contd. of page 9) · 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 Press. Gas L: Gases under pressure - Liquefied 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  $\cdot$  \* Data compared to the previous version altered. GR