

Version number 82 Revision: 11.10.2016 Printing date 14.11.2016

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

· 1.1 Product identifier

· Trade name: PETEC Rust Remover MoS2

· Article number: 70050

· 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 Penetrating oil

· 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

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- · 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.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- · 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

· Hazard-determining components of labelling:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Distillates (petroleum), hydrotreated light naphthenic

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

· 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.

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.

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#### · Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking. 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: 918-481-9 Reg.nr.: 01-2119457273-39-xxxx	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics  \$\&\text{Asp. Tox. 1, H304}\$	25-<50%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane  Flam. Gas 1, H220; Press. Gas C, H280	20-<25%
CAS: 64742-53-6 EINECS: 265-156-6 Reg.nr.: 01-2119480375-34-xxxx	Distillates (petroleum), hydrotreated light naphthenic Asp. Tox. 1, H304	10-<20%
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%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane  Flam. Gas 1, H220; Press. Gas C, H280	2.5-<5%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol ••• Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	1.0-<2.5%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents	
aliphatic hydrocarbons	≥ 30%
aromatic hydrocarbons	< 5%

<sup>·</sup> 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.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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· 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

**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
- · 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

Particular danger of slipping on leaked/spilled product.

Mount respiratory protective device.

Keep away from ignition sources.

Ensure adequate ventilation

· 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.

 $\cdot \textit{Information about fire - and explosion protection:} \\$ 

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:
- · 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.

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 $\cdot$  7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- $\cdot \textbf{\textit{Additional information about design of technical facilities:}} \ \textit{No further data; see item 7.}$
- · 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: 111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm Long-term value: 123 mg/m³, 25 ppm

Sk, BMGV

#### · Ingredients with biological limit values:

### CAS: 111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: butoxyacetic acid

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- $\cdot \textit{General protective and hygienic measures:} \\$

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:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

#### · 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.

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.

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· Eye protection:



Tightly sealed goggles

(EN 166)

· Body protection: Protective work 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: Grey

· Odour: Petroleum-like

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Not applicable, as aerosol.

· 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.

· Explosion limits:

Lower:Not determined.Upper:Not determined.

• **Density at 20 °C:** 0.69291 g/cm<sup>3</sup>

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

 Organic solvents:
 85.5 %

 VOC (EC)
 592.1 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.

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· 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)		
Oral	LD50	75999 mg/kg (rat)
Dermal	LD50	75999 mg/kg (rat) 20540 mg/kg (rab)

Hydroca	rbons, C10	-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics
Oral	LD50	>2000 mg/kg (rat)

>2000 mg/kg (rat)

LD50 CAS: 75-28-5 isobutane

Dermal

Inhalative LC50/4 h 125 mg/l

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

CAS: 74-98-6 propane

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

CAS: 106-97-8 butane

Inhalative LC50/4 h 658 mg/l (rat)

### CAS: 111-76-2 2-butoxyethanol

Oral	LD50	1480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/l (ATE)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · 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.
- · 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

May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

EC50/48 h >1000 mg/l (daphnia)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.

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- · 12.4 Mobility in soil No further relevant information available.
- $\cdot \textit{Additional ecological information:}$
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- $\cdot \ \textbf{12.6 Other adverse effects} \ \textit{No further relevant information available}.$

# **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:	lransport inj	tormat	ion
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· 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)
- · ADR/RID/ADN



· Class
 · Label
 2 5F Gases.
 2.1

· IMDG, IATA



· Class
 · Label
 2.1
 2.1

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ADR,RID,ADN, IMDG, IATA  14.5 Environmental hazards: Marine pollutant: No  14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Code SW1 Protected from sources of heat. SW2 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, Clear 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 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.  1- Transport/Additional information: ADR/RID/ADN Limited quantities (LQ) Limited quantities (EQ) Transport category Transport categ		(Contd. of page
Marine pollutant:  No  14.6 Special precautions for user Danger code (Kemler): EMS Number: 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 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 appropriat 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 Limited quantities (LQ) Limited quantities (EQ) Code: E0 Not permitted as Excepted Quantity  Transport category 2 Transport category 2 Transport category 1 LL Excepted quantities (LQ) LI Excepted Quantity	· 14.4 Packing group · ADR,RID,ADN, IMDG, IATA	Void
- 14.6 Special precautions for user - Danger code (Kemler): - EMS Number: - 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 - 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. For WASTE AEROSOLS - 14.7 Transport in bulk according to Annex II of - Marpol and the IBC Code - Not applicable Transport/Additional information: - ADR/RID/ADN - Limited quantities (LQ) - Limited quantities (LQ) - Transport category - Transport category - Transport category - Transport category - Tunnel restriction code - D - IMDG - Limited quantities (LQ) - Limited Quant	· 14.5 Environmental hazards:	
Danger code (Kemler): - EMS Number: - 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, Cleater of living quarters Segregation Code - Segregation as for class 9. Stow "separated from" class 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 - Transport/Additional information: - ADR/RID/ADN - Limited quantities (LQ) - Excepted quantities (EQ) - Transport category - Transport category - Transport category - Transport category - Tunnel restriction code - D - IMDG - Limited quantities (LQ) - Not permitted as Excepted Quantity - Code: E0 - Not permitted as Excepted Quantity	· Marine pollutant:	No
EMS Number: Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litr. Category A. For AEROSOLS: Category C. Clear of living quarters. Segregation Code Segregation as for class 9. Stow "separated from" class except for division 1.4. For AEROSOLS with a capacity of 1 litr. Segregation as for class 9. Stow "separated from" class except for division of class 2. For WASTE AEROSOLS with a capacity of 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS with a capacity of 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 Limited quantities (LQ) Limited quantities (EQ) Transport category 2 Tunnel restriction code D  IMDG Limited quantities (LQ) Limited quantities (LQ) Limited quantities (LQ) Limited quantities (LQ) Not permitted as Excepted Quantity  Excepted quantities (LQ) Not permitted as Excepted Quantity	· 14.6 Special precautions for user	Warning: Gases.
Stowage Code  SWI 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, Clee of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre Segregation Code 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 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 Limited quantities (LQ) Limited quantities (LQ) Transport category 2 Tunnel restriction code D  IMDG Limited quantities (LQ) Not permitted as Excepted Quantity  Limited quantities (LQ) Not permitted as Excepted Quantity	· Danger code (Kemler):	- ·
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Not permitted as Excepted Quantity	· Excepted quantities (EQ)	Code: E0
· UN ''Model Regulation'': UN 1950 AEROSOLS, 2.1	~ ~	Not permitted as Excepted Quantity
	· UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

# **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
- · 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.

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### **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.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

#### · 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

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

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

Asp. Tox. 1: Aspiration hazard – Category 1

\* \* Data compared to the previous version altered.