

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

Printing date 30.11.2021

Version number 1

Revision: 30.11.2021

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

- **1.1 Product identifier**
- **Trade name:** *PORTA 79-02 Brake-Clean*
- **UFI:** *XM60-40WK-K00Y-SR0Q*
- **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** *Solvent Cleaner*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Techno Service GmbH  
Detmolder Strasse 515  
D-33605 Bielefeld  
Germany  
+49 521 924440  
www.metaflux.de*
- **Further information obtainable from:**  
*Sales Department  
+49 521 92444-0*
- **1.4 Emergency telephone number:** *+49 700 24 112 112 or +1 872 5888271 (TSF) - 24 h*




**SECTION 2: Hazards identification**

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

<i>Aerosol 1</i>	<i>H222-H229</i>	<i>Extremely flammable aerosol. Pressurised container: May burst if heated.</i>
<i>Skin Irrit. 2</i>	<i>H315</i>	<i>Causes skin irritation.</i>
<i>Eye Irrit. 2</i>	<i>H319</i>	<i>Causes serious eye irritation.</i>
<i>STOT SE 3</i>	<i>H336</i>	<i>May cause drowsiness or dizziness.</i>
<i>Asp. Tox. 1</i>	<i>H304</i>	<i>May be fatal if swallowed and enters airways.</i>
<i>Aquatic Chronic 2</i>	<i>H411</i>	<i>Toxic to aquatic life with long lasting effects.</i>

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*The labelling of an aspiration hazard (Asp. Tox. 1 H304) is not required for aerosols and containers with a sealed spray attachment (Regulation (EC) 1272/2008, Annex I, 1.3.3).  
The product is classified and labelled according to the CLP regulation.*
- **Hazard pictograms**

		
GHS02	GHS07	GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
*Hydrocarbons, C6, isoalkanes, <5% n-hexane  
Hydrocarbons, C7, n-alkanes, iso-alkanes, cycloalkanes  
Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane  
Propan-2-ol*
- **Hazard statements**  
*H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.*

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**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.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P260 Do not breathe spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves / eye protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P405 Store locked up.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P501 Dispose of container with content as special waste.

**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: consisting of the following components.

**Dangerous components:**

CAS: 64742-49-0 EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT SE 3; C ≥ 15 %	25-50%
CAS: 64742-49-0 EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, iso-alkanes, cycloalkanes ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≥10-<25%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	Propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 Specific concentration limit: STOT SE 3; C ≥ 15 %	≥10-<15%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	10-25%
CAS: 64742-49-0 EC number: 926-605-8 Reg.nr.: 01-2119486291-36	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336 Specific concentration limit: STOT SE 3; C ≥ 15 %	2.5-10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide ⚠ Press. Gas (Liq.), H280	2.5-10%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≤1%

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥30%
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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Take affected persons out into the fresh air.  
Do not leave affected persons unattended.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **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.
- **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:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Allow to evaporate.
- **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 disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**  
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.  
Do not spray onto a naked flame or any incandescent material.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

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- **Recommended storage temperature:** 15 - 35°C, max. 50°C
- **Storage class:** German storage class: 2B (Aerosols)
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

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

##### **64742-49-0 Hydrocarbons, C6, isoalkanes, <5% n-hexane**

RCP-TWA (Great Britain)	Long-term value: 1400 mg/m <sup>3</sup>
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##### **67-63-0 Propan-2-ol**

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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##### **64-17-5 ethanol**

WEL (Great Britain)	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
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##### **64742-49-0 Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane**

RCP-TWA (Great Britain)	Long-term value: 1400 mg/m <sup>3</sup>
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##### **124-38-9 carbon dioxide**

WEL (Great Britain)	Short-term value: 27400 mg/m <sup>3</sup> , 15000 ppm Long-term value: 9150 mg/m <sup>3</sup> , 5000 ppm
IOELV (EU)	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm

##### **110-54-3 n-hexane**

WEL (Great Britain)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
IOELV (EU)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm

##### **78-93-3 butanone**

WEL (Great Britain)	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
IOELV (EU)	Short-term value: 900 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm

#### · **DNELs**

##### **64742-49-0 Hydrocarbons, C6, isoalkanes, <5% n-hexane**

Oral	DNEL Endverbraucher/ Consumers / Consommateur	1,301 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers / Consommateur	1,377 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	13,964 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers / Consommateur	1,137 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	5,306 mg /m3 (.)

##### **67-63-0 Propan-2-ol**

Oral	DNEL Endverbraucher/ Consumers / Consommateur	26 mg/kg BW/ day (.) chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systémique Effets Overall assessment factor (AF): 2
Dermal	DNEL - Endverbraucher/ Consumers / Consommateur	319 mg/kg BW /day (.) chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systémique Effets Overall assessment factor (AF): 2

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Inhalative	DNEL Arbeiter / Workers/ Travailleur	888 mg/kg BW /day (.) chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systématique Effets Overall assessment factor (AF): 1
	DNEL Endverbraucher/ Consumers / Consommateur	89 mg /m3 (.) chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systématique Effets Overall assessment factor (AF):2
	DNEL Arbeiter / Workers/ Travailleur	500 mg /m3 (.) chronische Exposition, Systemische Wirkungen/ chronic Exposition, systemic effects/ Chronique Exposition, Systématique Effets Overall assessment factor (AF): 1

**64-17-5 ethanol**

Oral	DNEL Endverbraucher/ Consumers / Consommateur	87 mg/kg BW/ day (.) systemische Wirkung
Dermal	DNEL - Endverbraucher/ Consumers / Consommateur	206 mg/kg BW /day (.) systemische Wirkung
	DNEL Arbeiter / Workers/ Travailleur	343 mg/kg BW /day (.) systemische Wirkung

**64742-49-0 Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane**

Oral	DNEL Endverbraucher/ Consumers / Consommateur	1,301 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers / Consommateur	1,377 mg/kg BW /day (.)
Inhalative	DNEL Arbeiter / Workers/ Travailleur	13,964 mg/kg BW /day (.)
	DNEL Endverbraucher/ Consumers / Consommateur	1,131 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	5,306 mg /m3 (.)

**· Ingredients with biological limit values:****78-93-3 butanone**

BMGV (Great Britain)	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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· **Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

**· General protective and hygienic measures:**

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:**

Not necessary if room is well-ventilated.



Use suitable respiratory protective device in case of insufficient ventilation.

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- Hand protection
- Material of gloves



If contamination is possible, use gloves made of nitrile according EN 374

- Penetration time of glove material > 480 min / 0,4 mm thickness

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

- |  |                                   |
|--|-----------------------------------|
| · Colour:  | Colourless                        |
| · Odour:   | Characteristic                    |
| · Melting point/freezing point:                            | Undetermined.                     |
| · Boiling point or initial boiling point and boiling range | 60 °C                             |
| · Lower and upper explosion limit                          |                                   |
| · Lower:   | 0.8 Vol %                         |
| · Upper:   | 12.0 Vol %                        |
| · Flash point:   | Not applicable, as aerosol.       |
| · Auto-ignition temperature:                               | Product is not selfigniting.      |
| · pH   | Not applicable.                   |
| · Solubility   |                                   |
| · water:   | Not miscible or difficult to mix. |
| · Pressure (20°C)  | 4.5 - 6.5 bar                     |
| · Density and/or relative density                          |                                   |
| · Density at 20 °C:  | 0.757 g/cm <sup>3</sup>           |

#### · 9.2 Other information

- |   |  |
|---|--|
| · Appearance:   |  |
| · Form:   | Aerosol  |
| · Important information on protection of health and environment, and on safety. |  |
| · Ignition temperature:   | 250 °C   |
| · Explosive properties:   | Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air. |
| · Solvent content:  |  |
| · Organic solvents:   | 95.2 %   |
| · VOC (EC)  | 95.20 % = 0.7207 kg/L = 0.5405 kg/750ml  |

#### · Information with regard to physical hazard classes

- |   |  |
|---|--|
| · Explosives                            | Void   |
| · Flammable gases                       | Void   |
| · Aerosols                              | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| · Oxidising gases                       | Void   |
| · Gases under pressure                  | Void   |
| · Flammable liquids                     | Void   |
| · Flammable solids                      | Void   |
| · Self-reactive substances and mixtures | Void   |
| · Pyrophoric liquids                    | Void   |
| · Pyrophoric solids                     | Void   |
| · Self-heating substances and mixtures  | Void   |

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- |  |                              |
|--|------------------------------|
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void                         |
| · <b>Oxidising liquids</b>   | Void                         |
| · <b>Oxidising solids</b>  | Void                         |
| · <b>Organic peroxides</b>   | Void                         |
| · <b>Corrosive to metals</b>   | Void                         |
| · <b>Desensitised explosives</b>   | Void                         |
| · <b>Additional information</b>  | Vapors are heavier than air. |

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **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.
- **Additional information:** Stable for a storage time of min. 24 months

**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 relevant for classification:****64742-49-0 Hydrocarbons, C6, isoalkanes, <5% n-hexane**

Oral	LD50	>16,750 mg/kg (rat)
Dermal	LD50	>3,350 mg/kg (rat)
Inhalative	LC50/4 h	>259 mg/l (rat)

**67-63-0 Propan-2-ol**

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

**64-17-5 ethanol**

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

**64742-49-0 Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane**

Oral	LD50	>16,750 mg/kg (rat)
Dermal	LD50	>3,350 mg/kg (rat)
Inhalative	LC50/4 h	>259 mg/l (rat)

**78-93-3 butanone**

Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.
- **11.2 Information on other hazards**

· <b>Endocrine disrupting properties</b>
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None of the ingredients is listed.
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**SECTION 12: Ecological information**

· **12.1 Toxicity**

· <b>Aquatic toxicity:</b>
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<b>64-17-5 ethanol</b>
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LC 50 / 96 h	8,150 mg / l (gol)
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- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse 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.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
empty cans: material recycling  
filled cans: remove in accordance with local regulations

· <b>European waste catalogue</b>
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16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
----------	--

16 05 00	gases in pressure containers and discarded chemicals
----------	--

16 05 04*	gases in pressure containers (including halons) containing hazardous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA**

UN1950
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· **14.2 UN proper shipping name**  
 · **ADR** 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS  
 · **IMDG** AEROSOLS (Naphtha (petroleum), hydrotreated, light, CYCLOHEXANE), MARINE POLLUTANT  
 · **IATA** AEROSOLS, flammable

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class** 2.5F Gases.  
 · **Label** 2.1

· **IMDG**



· **Class** 2.1 Gases.  
 · **Label** 2.1

· **IATA**



· **Class** 2.1 Gases.  
 · **Label** 2.1

· **14.4 Packing group**

· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated, light

· **Marine pollutant:**

Yes  
 Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Gases.

· **Hazard identification number (Kemler code):**

-

· **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, Clear of living quarters.

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· <b>Segregation Code</b>	SG69 For AEROSOLS with a maximum capacity of 1 litre: 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.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
· <b>Remarks:</b>	Transportation as "LIMITED QUANTITIES" according 3.4 ADR is possible. Sole marking: Sign for "Limited Quantities" (rhombus with two black edges) Entry in the transportation document: Transportation according chapter 3.4 ADR Tunnel category "E" in case of a load of 8000 kg (rgross weight) or more.
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 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**  
E2 Hazardous to the Aquatic Environment  
P3b FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **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.

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

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**Trade name: PORTA 79-02 Brake-Clean**

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**· Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**· National regulations:****· Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
I	2.0
NK	91.9

**· 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**

- 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.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.

**· Abbreviations and acronyms:**

- 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)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Aerosol 1: Aerosols – Category 1  
Press. Gas (Liq.): Gases under pressure – Liquefied gas  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye 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

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

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