

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)

Revision: 15.03.2023

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

1.1 Product identifier

- Trade name: **CARAMBA Profi High performance electronics cleaner (Aerosol)**
- Article number: 60358542
- UFI: WTK0-00YH-V00T-QTWH

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 *Cleaning agent/ Cleaner*

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

CARAMBA CHEMIE GMBH & Co.KG
 Wanheimerstr. 334/336
 47055 DUISBURG
 www.caramba.de

Tel.: +49(0)203/7786 01

Further information obtainable from:

Abteilung Produktsicherheit
 Sicherheitsdatenblaetter@caramba.de

1.4 Emergency telephone number: Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

| | | |
|-------------------|-----------|--------------------------------------------------------------------------|
| Aerosol 1 | H222-H229 | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| STOT SE 3 | H336 | May cause drowsiness or dizziness. |
| Asp. Tox. 1 | H304 | May be fatal if swallowed and enters airways. |
| Aquatic Chronic 2 | H411 | Toxic 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 GHS09

Signal word Danger

Hazard-determining components of labelling:

pentane
 Hydrocarbons, C6, isoalkanes, <5% n-hexane
 White mineral oil, petroleum

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

P101 If medical advice is needed, have product container or label at hand.
 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.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)

Revision: 15.03.2023

Trade name: CARAMBA Profi High performance electronics cleaner (Aerosol)

(Contd. of page 1)

- P261 Avoid breathing spray.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.

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: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1 Reg.nr.: 01-2119459286-30 | pentane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066 | 25-50% |
| 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 | 25-50% |
| CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32 | butane Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | 10-25% |
| CAS: 8042-47-5 EINECS: 232-455-8 Reg.nr.: 01-2119487078-27 | White mineral oil, petroleum Asp. Tox. 1, H304 | 5-10% |
| CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21 | Propane Flam. Gas 1A, H220; Press. Gas (Liq.), H280 | 5-10% |
| CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27 | Isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | 1-2.5% |
| CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-096-00-2 Reg.nr.: 01-2119529223-47 | (R)-p-mentha-1,8-diene Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412 | ≥0.25-<1% |

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

| | |
|----------------------------------------------------------------------------------|------|
| aliphatic hydrocarbons | ≥30% |
| perfumes | <5% |
| allergenic fragrances, LIMONENE, GERANIOL, CINNAMYL ALCOHOL, CITRAL, CITRONELLOL | |

 • **Additional information:** For the wording of the listed hazard phrases refer to section 16.

EU

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)

Revision: 15.03.2023

Trade name: CARAMBA Profi High performance electronics cleaner (Aerosol)

(Contd. of page 2)

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **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.
- **After swallowing:** If symptoms persist consult 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.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, 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:** No special measures required.

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:**
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:** Ensure adequate ventilation.
- **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.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **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:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)

Revision: 15.03.2023

Trade name: CARAMBA Profi High performance electronics cleaner (Aerosol)

(Contd. of page 3)

· **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:**

109-66-0 pentane (25-50%)

IOELV Long-term value: 3000 mg/m³, 1000 ppm

· **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:**

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.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX

· **Hand protection** Solvent resistant gloves

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.6 mm

· **Penetration time of glove material**

Value for the permeation: Level ≥ 480 min

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· **Eye/face protection** Safety glasses

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· **Colour:**

Clear

· **Odour:**

Petrol-like

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Not applicable, as aerosol.

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable, as aerosol.

· **Ignition temperature:**

Not determined.

· **Decomposition temperature:**

Not determined.

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Not miscible or difficult to mix.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)

Revision: 15.03.2023

Trade name: CARAMBA Profi High performance electronics cleaner (Aerosol)

(Contd. of page 4)

- **Vapour pressure:** Not determined.
- **Density and/or relative density**
- **Density at 20 °C:** 0.66 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **9.2 Other information**
- **Appearance:**
- **Form:** Aerosol
- **Important information on protection of health and environment, and on safety.**
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Not determined.
- **Change in condition**
- **Evaporation rate** Not applicable.
- **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
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** 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 relevant for classification:**

8042-47-5 White mineral oil, petroleum

| | | |
|--------|------|-----------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >3,000 mg/kg (rabbit) |

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)

Revision: 15.03.2023

Trade name: CARAMBA Profi High performance electronics cleaner (Aerosol)

(Contd. of page 5)

5989-27-5 (R)-p-mentha-1,8-diene

| | | |
|------|------|-------------------|
| Oral | LD50 | 4,400 mg/kg (rat) |
|------|------|-------------------|

· 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.

· 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

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
· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:
64742-49-0 Hydrocarbons, C6, isoalkanes, <5% n-hexane

| | |
|-----------|----------------------------------|
| LC50/96 h | 18.27 mg/l (Oncorhynchus mykiss) |
|-----------|----------------------------------|

| | |
|-----------|---------------------------|
| EC50/48 h | 31.9 mg/l (Daphnia Magna) |
|-----------|---------------------------|

| | |
|-----------|----------------------------------|
| NOEC/28 d | 4.089 mg/l (Oncorhynchus mykiss) |
|-----------|----------------------------------|

| | |
|-----------|----------------------------|
| NOEC/21 d | 7.138 mg/l (Daphnia Magna) |
|-----------|----------------------------|

5989-27-5 (R)-p-mentha-1,8-diene

| | |
|------|-------------------|
| EC50 | 0.32 mg/l (algae) |
|------|-------------------|

· 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 For information on endocrine disrupting properties see section 11.

· 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

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

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)



Revision: 15.03.2023

Trade name: CARAMBA Profi High performance electronics cleaner (Aerosol)

(Contd. of page 6)



- **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**
 - **14.2 UN proper shipping name**
 - **ADR**
 - **IMDG**
 - **IATA**
 - **14.3 Transport hazard class(es)**
 - **ADR**
- 


- **Class**
 - **Label**
- UN1950

AEROSOLS, ENVIRONMENTALLY HAZARDOUS
AEROSOLS, MARINE POLLUTANT
AEROSOLS, flammable

2 5F Gases.
2.1
-
- **IMDG**
- 


- **Class**
 - **Label**
- 2.1 Gases.
2.1
-
- **IATA**
- 

- **Class**
 - **Label**
- 2.1 Gases.
2.1
- **14.4 Packing group**
 - **ADR, IMDG, IATA**
 - **14.5 Environmental hazards:**
 - **Marine pollutant:**
 - **Special marking (ADR):**
 - **14.6 Special precautions for user**
 - **Hazard identification number (Kemler code):**
 - **EMS Number:**
 - **Stowage Code**
- Void

Product contains environmentally hazardous substances:
Hydrocarbons, C6, isoalkanes, <5% n-hexane

Yes
Symbol (fish and tree)
Symbol (fish and tree)
Warning: Gases.

-

F-D,S-U
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.
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.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)

Revision: 15.03.2023

Trade name: CARAMBA Profi High performance electronics cleaner (Aerosol)

(Contd. of page 7)

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Excepted quantities (EQ):**

E0

· **Limited quantities (LQ)**

1L

· **Transport category**

2

· **Tunnel restriction code**

D

· **UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Please note TRGS 510.

· **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

· **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.

· **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.

H226 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.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

· **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

...das wirkt!

Printing date 15.03.2023

Version number 3 (replaces version 2)

Revision: 15.03.2023

Trade name: CARAMBA Profi High performance electronics cleaner (Aerosol)

(Contd. of page 8)

On basis of test data· **Version number of previous version: 2**· **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)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Flam. Gas 1A: Flammable gases – Category 1A**Aerosol 1: Aerosols – Category 1**Press. Gas (Comp.): Gases under pressure – Compressed gas**Press. Gas (Liq.): Gases under pressure – Liquefied gas**Flam. Liq. 2: Flammable liquids – Category 2**Flam. Liq. 3: Flammable liquids – Category 3**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Skin Sens. 1B: Skin sensitisation – Category 1B**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Asp. Tox. 1: Aspiration hazard – Category 1**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic 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*

EU