

**LPG System Clean & Protect**

Revision date: 28.10.2021

Product code: 1405

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

**1.1. Product identifier**

LPG System Clean & Protect

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of the substance/mixture**

Cleaning agent.

**1.3. Details of the supplier of the safety data sheet**

|                 |                           |                                |
|-----------------|---------------------------|--------------------------------|
| Company name:   | CTP GmbH                  |                                |
| Street:         | Saalfelder Strasse 35h    |                                |
| Place:          | D-07338 Leutenberg        |                                |
| Telephone:      | +49 (0)36734 230-0        | Telefax: +49 (0)36734 230-22   |
| e-mail:         | msds@bluechemgroup.com    |                                |
| Contact person: | Jens Moeller, Dipl.-Chem. | Telephone: +49 (0)36734 230-19 |
| Internet:       | www.bluechemgroup.com     |                                |

**1.4. Emergency telephone number:** GBK GmbH: +49-(0)6132-84463 (24/7)

**Further Information**

Article Number: 1931

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

**Regulation (EC) No. 1272/2008**

**Hazard components for labelling**

Low boiling point hydrogen treated naphtha, Naphtha (petroleum, gasoline), hydrotreated light ethyl acetate

**Signal word:** Danger

**Pictograms:**



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**Hazard statements**

|      |  |
|------|--|
| H222 | Extremely flammable aerosol.                       |
| H229 | Pressurised container: May burst if heated.        |
| H315 | Causes skin irritation.                            |
| H319 | Causes serious eye irritation.                     |
| H336 | May cause drowsiness or dizziness.                 |
| H412 | Harmful to aquatic life with long lasting effects. |

**Precautionary statements**

|                |  |
|----------------|--|
| P101           | If medical advice is needed, have product container or label at hand.  |
| P102           | Keep out of reach of children.   |
| 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 aerosole.  |
| P271           | Use only outdoors or in a well-ventilated area.  |
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves and eye/face protection.  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |
| P312           | Call a POISON CENTER/doctor if you feel unwell.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P405           | Store locked up.   |
| P410+P412      | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.   |
| P501           | Dispose of this material and its container to hazardous or special waste collection point.                                       |

**Labelling of packages where the contents do not exceed 125 ml**

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H222-H229-H336-H412

**Precautionary statements**

P101-P102-P210-P211-P251-P261-P271-P312-P405-P410+P412-P501

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Alcohols.  
ketone.  
Corrosion inhibitors.  
Additives  
Organic solvents

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**Hazardous components**

| CAS No     | Chemical name  |          |                  | Quantity    |
|------------|--|----------|------------------|-------------|
|            | EC No  | Index No | REACH No         |             |
|            | GHS Classification   |          |                  |             |
| 68476-85-7 | Petroleum gas, Petroleum gases, liquefied  |          |                  | 75 - < 80 % |
|            | 270-704-2  |          |                  |             |
|            | Flam. Gas 1A, Compressed gas; H220 H280  |          |                  |             |
| 64742-49-0 | Low boiling point hydrogen treated naphtha, Naphtha (petroleum, gasoline), hydrotreated light    |          |                  | 10 - < 15 % |
|            | 927-510-4  |          | 01-2119475515-33 |             |
|            | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 |          |                  |             |
| 124-38-9   | carbon dioxide   |          |                  | 5 - < 10 %  |
|            | 204-696-9  |          |                  |             |
|            | Compressed gas; H280   |          |                  |             |
| 141-78-6   | ethyl acetate  |          |                  | 1 - < 5 %   |
|            | 205-500-4  |          | 01-2119475103-46 |             |
|            | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066                                     |          |                  |             |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No   | EC No   | Chemical name                            | Quantity  |
|----------|---|--|-----------|
|          |   | Specific Conc. Limits, M-factors and ATE |           |
| 141-78-6 | 205-500-4   | ethyl acetate                            | 1 - < 5 % |
|          | inhalation: LC50 = 58 mg/l (vapours); dermal: LD50 = 18000 mg/kg; oral: LD50 = 5600 mg/kg |  |           |

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove affected person from the danger area and lay down.  
Change contaminated clothing.

**After inhalation**

Provide fresh air. If victim is at risk of losing consciousness, position and transport on their side.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.  
In case of skin irritation, seek medical treatment.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Consult physician.

**4.2. Most important symptoms and effects, both acute and delayed**

Frequently or prolonged contact with skin may cause dermal irritation.  
Irritation of eyes: Irritant effect possible.  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**4.3. Indication of any immediate medical attention and special treatment needed**

The following symptoms may occur:  
unconsciousness. Intoxication. vomiting. drowsiness. Headache.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguishing powder.  
Carbon dioxide (CO<sub>2</sub>).  
Water fog.  
alcohol resistant foam.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Swims on the water. Vapours are heavier than air and will spread at floor level.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Cool endangered container in case of fire.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear suitable solvent-proof protective clothing according to EN 465. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes.  
Do not breathe gas/fumes/vapour/spray.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).

**6.4. Reference to other sections**

Explosive. Vapours may form explosive mixtures with air.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Keep only in the original container in a cool, well-ventilated place.  
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Advice on protection against fire and explosion**

Vapours may form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

The floor should be leak tight, jointless and not absorbent. Keep only in the original container in a cool, well-ventilated place. Do not store at temperatures over: 50 °C  
Heating causes rise in pressure with risk of bursting.

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

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**Occupational exposure limits**

| CAS No     | Substance                           | ppm   | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|------------|-------------------------------------|-------|-------------------|---------------------|---------------|--------|
| 68476-85-7 | (OLD) Liquefied petroleum gas (LPG) | 1000  | 1800              |                     | TWA (8 h)     |        |
|            |                                     | 1250  | 2250              |                     | STEL (15 min) |        |
| 124-38-9   | Carbon dioxide                      | 5000  | 9000              |                     | TWA (8 h)     |        |
|            |                                     | 15000 | 27000             |                     | STEL (15 min) |        |
| 141-78-6   | Ethyl acetate                       | 200   | 734               |                     | TWA (8 h)     |        |
|            |                                     | 400   | 1468              |                     | STEL (15 min) |        |

**8.2. Exposure controls**

**Protective and hygiene measures**

Keep away from food, drink and animal feedingstuffs.

Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

**Eye/face protection**

Wear tightly sealed safety glasses against possible splashes into the eyes.

**Hand protection**

Tested protective gloves are to be worn: FKM (Fluoroelastomer (Viton)).NBR (Nitrile rubber).

**Respiratory protection**

Have to care for a good Ventilation at workplace.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

|                 |                |
|-----------------|----------------|
| Physical state: | Aerosol        |
| Colour:         | colourless     |
| Odour:          | characteristic |

**Changes in the physical state**

|                                 |           |
|---------------------------------|-----------|
| Flash point:                    | < 21 °C   |
| Auto-ignition temperature:      | 400 °C    |
| Water solubility:<br>(at 20 °C) | insoluble |

**9.2. Other information**

No data

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No decomposition when used as intended.

**10.3. Possibility of hazardous reactions**

No dangerous reactions are known.

**10.4. Conditions to avoid**

Do not store at temperatures over: 50 °C

Keep away from heat.

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**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No dangerous reactions are known.

No hazardous decomposition products are known.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.

| CAS No   | Chemical name           |               |         |        |        |
|----------|-------------------------|---------------|---------|--------|--------|
|          | Exposure route          | Dose          | Species | Source | Method |
| 141-78-6 | ethyl acetate           |               |         |        |        |
|          | oral                    | LD50<br>mg/kg | 5600    | Rat    |        |
|          | dermal                  | LD50<br>mg/kg | 18000   | Rabbit |        |
|          | inhalation (4 h) vapour | LC50          | 58 mg/l | Rat    |        |

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause drowsiness or dizziness. (Low boiling point hydrogen treated naphtha, Naphtha (petroleum, gasoline), hydrotreated light)

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Practical experience**

**Other observations**

No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

| CAS No     | Chemical name   |              |           |         |               |        |
|------------|---|--------------|-----------|---------|---------------|--------|
|            | Aquatic toxicity  | Dose         | [h]   [d] | Species | Source        | Method |
| 64742-49-0 | Low boiling point hydrogen treated naphtha, Naphtha (petroleum, gasoline), hydrotreated light |              |           |         |               |        |
|            | Acute crustacea toxicity  | EC50<br>mg/l | 1-10      | 48 h    | Daphnia magna |        |
|            | Crustacea toxicity  | NOEC         | 1 mg/l    |         | Daphnia magna |        |

**12.2. Persistence and degradability**

No information available.

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**12.3. Bioaccumulative potential**

Swims on the water.  
Low potential of bio-accumulation.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not empty into drains or the aquatic environment.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.  
Arrange about the exact waste code with the local waste disposal expert.

Do not dispose with household waste.

**List of Wastes Code - used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**Contaminated packaging**

Dispose of waste according to applicable legislation. Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

|   |   |
|---|---|
| <b><u>14.1. UN number:</u></b>                  | UN 1950   |
| <b><u>14.2. UN proper shipping name:</u></b>    | AEROSOLS<br>Petroleum gas, Petroleum gases, liquefied |
| <b><u>14.3. Transport hazard class(es):</u></b> | 2   |
| <b><u>14.4. Packing group:</u></b>              | -   |
| Hazard label:                                   | 2.1   |



|                          |                 |
|--------------------------|-----------------|
| Classification code:     | 5F              |
| Special Provisions:      | 190 327 344 625 |
| Limited quantity:        | 1 L             |
| Excepted quantity:       | E0              |
| Transport category:      | 2               |
| Hazard No:               | -               |
| Tunnel restriction code: | D               |

**Inland waterways transport (ADN)**

|                                |         |
|--------------------------------|---------|
| <b><u>14.1. UN number:</u></b> | UN 1950 |
|--------------------------------|---------|

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**14.2. UN proper shipping name:**

AEROSOLS

Petroleum gas, Petroleum gases, liquefied

**14.3. Transport hazard class(es):**

2

**14.4. Packing group:**

-

Hazard label:

2.1



Classification code:

5F

Special Provisions:

190 327 344 625

Limited quantity:

1 L

Excepted quantity:

E0

**Marine transport (IMDG)**

**14.1. UN number:**

UN 1950

**14.2. UN proper shipping name:**

AEROSOLS

Petroleum gas, Petroleum gases, liquefied

**14.3. Transport hazard class(es):**

2.1

**14.4. Packing group:**

-

Hazard label:

2.1



Marine pollutant:

-

Special Provisions:

63, 190, 277, 327, 344, 381, 959

Limited quantity:

1000 mL

Excepted quantity:

E0

EmS:

F-D, S-U

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:**

UN 1950

**14.2. UN proper shipping name:**

AEROSOLS, FLAMMABLE

Petroleum gas, Petroleum gases, liquefied

**14.3. Transport hazard class(es):**

2.1

**14.4. Packing group:**

-

Hazard label:

2.1



Special Provisions:

A145 A167 A802

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y203

Excepted quantity:

E0

IATA-packing instructions - Passenger:

203

IATA-max. quantity - Passenger:

75 kg

IATA-packing instructions - Cargo:

203

IATA-max. quantity - Cargo:

150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:

No



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**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No information available.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28

**Additional information**

Contains:

> 30 % aliphatic hydrocarbons

**National regulatory information**

Water hazard class (D):

2 - obviously hazardous to water

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

Low boiling point hydrogen treated naphtha, Naphtha (petroleum, gasoline), hydrotreated light ethyl acetate

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 2,3,8,10,11,12,14,15.

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

| Classification          | Classification procedure      |
|-------------------------|-------------------------------|
| Aerosol 1; H222-H229    | On basis of test data         |
| Asp. Tox. 1; H304       | Calculation method            |
| Skin Irrit. 2; H315     | Bridging principle "Aerosols" |
| Eye Irrit. 2; H319      | Bridging principle "Aerosols" |
| STOT SE 3; H336         | Bridging principle "Aerosols" |
| Aquatic Chronic 3; H412 | Calculation method            |

**Relevant H and EUH statements (number and full text)**

|        |   |
|--------|---|
| H220   | Extremely flammable gas.                              |
| H222   | Extremely flammable aerosol.                          |
| H225   | Highly flammable liquid and vapour.                   |
| H229   | Pressurised container: May burst if heated.           |
| 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.      |
| H412   | Harmful to aquatic life with long lasting effects.    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*