

**Petrol System Cleaner LPG**

Revision date: 10.06.2015

Product code: 1476

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

**1.1. Product identifier**

Petrol System Cleaner LPG

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

**Use of the substance/mixture**

Cleaning agent for Fuel Systems

**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:**

For Germany: +49-361-730730 (24 hours/7 days)

**Further Information**

Article Number: 1921, 1922

**SECTION 2: Hazards identification**

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

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

Hazard categories:

Flammable liquid: Flam. Liq. 2

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Carcinogenicity: Carc. 2

Specific target organ toxicity - single exposure: STOT SE 3

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

Harmful if inhaled.

May cause drowsiness or dizziness.

Suspected of causing cancer.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

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

**Hazard components for labelling**

xylene

propan-2-ol; isopropyl alcohol; isopropanol

Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates

Hydrocarbons, C10, aromatics, >1% naphthalene

**Signal word:** Danger

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**Pictograms:**



**Hazard statements**

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
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.
P233	Keep container tightly closed.
P271	Use only outdoors or in a well-ventilated area.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405	Store locked up.
P501	Dispose of this material and its container to hazardous or special waste collection point.

**2.3. Other hazards**

No information available.

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

**3.2. Mixtures**

**Chemical characterization**

Surface tension compounds  
Detergents, Dispersants  
Synthetic agent combinations  
Anti wear agents not classified

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**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
1330-20-7	xylene			30 - < 35 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			20 - < 25 %
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
67-64-1	acetone; propan-2-one; propanone			20 - < 25 %
	200-662-2	606-001-00-8		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
64742-48-9	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates			10 - < 15 %
	919-857-5		01-2119463258-33	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066			
64742-47-8	Hydrocarbons, C9-C11, Isoalkanes, Cycloalkanes, < 2% Aromates			5 - < 10 %
	920-134-1		01-2119480153-44	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411 EUH066			
37205-87-1	isononylphenole, ethoxylised			1 - < 5 %
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 2; H302 H318 H411			
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene			1 - < 5 %
	919-284-0		01-2119463588-24	
	Carc. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H351 H336 H304 H411			
64742-94-5	Hydrocarbons, C10-C13, aromatics, >1% naphthalene			< 1 %
	926-273-4		01-2119451151-53	
	Carc. 2, Asp. Tox. 1, Aquatic Chronic 2; H351 H304 H411			

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

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Move victim to fresh air. Put victim at rest and keep warm.

**After inhalation**

Move victim to fresh air. Put victim at rest and keep warm.

In case of difficulties of breathing consult physician.

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

**After contact with skin**

Take off immediately all contaminated clothing, including underwear and shoes.

After contact with skin, wash immediately with plenty of water and soap.

Rub greasy ointment into the skin.

**After contact with eyes**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Consult physician.

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**After ingestion**

Let water be drunken in little sips (dilution effect). 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.

After ingestion: Harmful: may cause lung damage if swallowed.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

Warning about danger of aspiration.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguishing powder.

Sand.

alcohol resistant foam.

Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

High power water jet.

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

Formation of decomposition products possible.

In case of fire and/or explosion do not breathe fumes.

**5.3. Advice for firefighters**

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

**Additional information**

Cool endangered container in case of fire.

Contaminated fire-fighting water must be collected separately.

**SECTION 6: Accidental release measures**

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

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

Keep away from sources of ignition. - No smoking.

**6.2. Environmental precautions**

Beat down gas/vapours/mist with water spray.

Do not empty into drains or the aquatic environment.

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**

Prevent spreading of spillages (e.g. by oil barrier).

Wipe up with absorbent material (eg. cloth, fleece).

**6.4. Reference to other sections**

No data

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Closed devices. Vapours / aerosols must be extracted by suction immediately at point of origin.

Avoid contact with skin and eyes.

**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

**Further information on storage conditions**

Packaging materials: metal.

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

No information available.

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

**8.1. Control parameters**

**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	
		-	-		STEL (15 min)	
67-63-0	Propan-2-ol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	
1330-20-7	Xylene, mixed isomers	50	221		TWA (8 h)	
		100	442		STEL (15 min)	

**Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-63-0	2-Propanol	Acetone	40 mg/L	Urine	End of shift at end of workweek
67-64-1	Acetone	Acetone	50 mg/L	Urine	End of shift

**8.2. Exposure controls**

**Protective and hygiene measures**

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

**Eye/face protection**

Wear tightly sealed safety glasses against possible splashes into the eyes. (DIN EN 166)

**Hand protection**

Tested protective gloves are to be worn: Butyl rubber. (DIN EN 374)

**Skin protection**

Wear suitable solvent-proof protective clothing according to EN 465.

**Respiratory protection**

In case of accumulation of fumes/aerosols, provide adequate ventilation.

In case of insufficient ventilation, wear suitable respiratory equipment.

**SECTION 9: Physical and chemical properties**

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

Physical state: liquid  
Colour: light red  
Odour: aromatic

**Test method**

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**Changes in the physical state**

Initial boiling point and boiling range:	110 - 116 °C
Flash point:	-7,5 °C
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	12 vol. %
Ignition temperature:	> 200 °C
Vapour pressure: (at 20 °C)	20 hPa
Density (at 20 °C):	0.78-0.82 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	insoluble

**Solubility in other solvents**

Organic solvents

**9.2. Other information**

No data

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No information available.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

Only use the material in places where open light, fire and other flammable sources can be kept away.

**10.5. Incompatible materials**

Oxidizing agents. acid, concentrated. Alkalis (alkalis), concentrated.

**10.6. Hazardous decomposition products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

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**Acute toxicity**

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
1330-20-7	xylene			
	oral	LD50 4300 mg/kg	Rat	
	dermal	LD50 3200 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50 21,7 mg/l	Rat	
	inhalative aerosol	ATE 1,5 mg/l		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
	oral	LD50 5280 mg/kg	Rat	
	dermal	LD50 12800 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50 47,5 mg/l	Rat	
67-64-1	acetone; propan-2-one; propanone			
	oral	LD50 5800 mg/kg	Rat	RTECS
	dermal	LD50 20000 mg/kg	Rabbit	IUCLID
	inhalative (4 h) vapour	LC50 76 mg/l	Rat	
64742-48-9	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates			
	oral	LD50 >5000 mg/kg	Rat	
	dermal	LD50 >5000 mg/kg	Rabbit	
	inhalative (4 h) aerosol	LC50 >5 mg/l	Rat	
64742-47-8	Hydrocarbons, C9-C11, Isoalkanes, Cycloalkanes, < 2% Aromates			
	oral	LD50 >5000 mg/kg	Rat	
	dermal	LD50 >5000 mg/kg	Rabbit	
	inhalative (4 h) aerosol	LC50 >5 mg/l	Rat	
37205-87-1	isononylphenole, ethoxylised			
	oral	LD50 2000 mg/kg	Rat	

**Irritation and corrosivity**

After skin contact: Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

After ingestion:

Harmful: may cause lung damage if swallowed.

**SECTION 12: Ecological information**

**12.1. Toxicity**

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
1330-20-7	xylene				
	Acute fish toxicity	LC50 26,7 mg/l	96 h	Pimephales promelas	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	Acute fish toxicity	LC50 9640 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50 1000 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50 13299 mg/l	48 h	Daphnia magna	
67-64-1	acetone; propan-2-one; propanone				
	Acute fish toxicity	LC50 5540 mg/l	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50 6100 mg/l	48 h	Daphnia magna	
64742-48-9	Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates				
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 >1000 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 1000 mg/l	48 h	Daphnia magna	
64742-47-8	Hydrocarbons, C9-C11, Isoalkanes, Cycloalkanes, < 2% Aromates				
	Acute fish toxicity	LC50 >1000 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 >1000 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 1000 mg/l	48 h	Daphnia magna	
37205-87-1	isononylphenole, ethoxylised				
	Acute fish toxicity	LC50 1-10 mg/l	96 h	Brachydanio rerio	
	Acute algae toxicity	ErC50 1-10 mg/l	72 h	Scenedesmus subspicatus	
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene				
	Acute fish toxicity	LC50 2-5 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50 1-3 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50 3-10 mg/l	48 h	Daphnia magna	

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

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

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
67-64-1	acetone; propan-2-one; propanone	-0,24

**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.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**



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**Advice on disposal**

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Arrange about the exact waste code with the local waste disposal expert.


**Contaminated packaging**

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.


Do not pierce, cut up or weld unclean container. (Explosion hazard.)

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

<b>14.1. UN number:</b>	UN 1993
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
	
Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

**Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	UN 1993
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3
	
Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2

**Marine transport (IMDG)**

<b>14.1. UN number:</b>	UN 1993
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, N.O.S.
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3

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Marine pollutant: -  
Special Provisions: 274  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-E, S-E

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

**14.1. UN number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: A3  
Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 353  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 364  
IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**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**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
isononylphenole, ethoxylised

Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons, C9-C11, n-Alkanes, Isoalkanes, Cyclenes, < 2% Aromates  
Entry 46a: isononylphenole, ethoxylised

**Additional information**

Contains:  
15 - 30 % aliphatic hydrocarbons  
> 30 % hydrocarbons, aromatic.  
< 5 % phenole, ethoxylised

**National regulatory information**

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Water contaminating class (D): 2 - water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
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 present level of our knowledge. It does not, however, give assurances 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.)*