

according to Regulation (EC) No 1907/2006

### Autoprofi LPG System Clean & Protect

Revision date: 14.01.2016

Product code: 1761

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

### 1.1. Product identifier

Autoprofi 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

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

#### number:

#### Further Information

Article Number: 43233

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Hazard categories:

Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Reproductive toxicity: Repr. 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

### 2.2. Label elements

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

#### Hazard components for labelling

toluene

Signal word: Danger

#### Pictograms:



#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.

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#### Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362	Take off contaminated clothing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P308+P313	IF exposed or concerned: Get medical advice/attention.
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.

#### 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	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
68476-85-7	Petroleum gas, Petroleum gases, liquefied			50 - < 55 %
	270-704-2			
	Flam. Gas 1, Compressed gas; H220 H280			
108-88-3	toluene			1 - < 5 %
	203-625-9		01-2119471310-51	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			1 - < 5 %
	200-661-7		01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
78-87-5	1,2-dichloropropane, propylene dichloride			1 - < 5 %
	201-152-2	602-020-00-0		
	Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4; H225 H332 H302			
64742-49-0	Naphtha (petroleum), hydrotreated light			1 - < 5 %
	265-151-9			
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1; H226 H336 H304 EUH066			
1330-20-7	xylene			1 - < 5 %
	215-535-7		01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H312 H332 H315 H319 H335 H373 H304			
67-64-1	acetone; propan-2-one; propanone			1 - < 5 %
	200-662-2		01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether			1 - < 5 %
	203-905-0		01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H312 H332 H315 H319			

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

## 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.

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#### 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.

### 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

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#### 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

##### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
111-76-2	2-Butoxyethanol	20	98		TWA (8 h)	
		50	246		STEL (15 min)	
67-64-1	Acetone	500	1210		TWA (8 h)	
		-	-		STEL (15 min)	
68476-85-7	Liquefied petroleum gas (LPG)	1000	1800		TWA (8 h)	
		1250	2250		STEL (15 min)	
67-63-0	Propan-2-ol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	
78-87-5	Propylene dichloride	10	46		TWA (8 h)	
		-	-		STEL (15 min)	
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		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
111-76-2	2-Butoxyethanol	BAA	200 mg/g	Creatinine	End of shift
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
108-88-3	Toluene	Toluene	0.02 mg/L	Blood	Prior to last shift of workweek

#### 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).

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#### 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

#### Test method

#### Changes in the physical state

Flash point:	< 21 °C
Ignition temperature:	400 °C
Water solubility: (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.

#### 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

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#### Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
108-88-3	toluene			
	dermal	LD50 12200 mg/kg	Rabbit	GESTIS
	inhalative (4 h) vapour	LC50 49 mg/l	Rat	GESTIS
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	
78-87-5	1,2-dichloropropane, propylene dichloride			
	oral	ATE 500 mg/kg		
	inhalative vapour	ATE 11 mg/l		
	inhalative aerosol	ATE 1,5 mg/l		
64742-49-0	Naphtha (petroleum), hydrotreated light			
	oral	LD50 >5000 mg/kg	Rat	
	dermal	LD50 >3160 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50 >20 mg/l	Rat	
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		
67-64-1	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	
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether			
	oral	ATE 500 mg/kg		
	dermal	ATE 1100 mg/kg		
	inhalative vapour	ATE 11 mg/l		
	inhalative aerosol	ATE 1,5 mg/l		

#### Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

### SECTION 12: Ecological information

#### 12.1. Toxicity

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
108-88-3	toluene				
	Acute fish toxicity	LC50	13 mg/l	96 h	Carassius auratus
	Acute algae toxicity	ErC50	12,5 mg/l	72 h	
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
64742-49-0	Naphtha (petroleum), hydrotreated light				
	Acute fish toxicity	LC50	10 mg/l	96 h	Fish
	Acute algae toxicity	ErC50	10 mg/l	72 h	Algae
1330-20-7	xylene				
	Acute fish toxicity	LC50	26,7 mg/l	96 h	Pimephales promelas
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

#### 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
108-88-3	toluene	2,73
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.

#### Further information

Do not empty into drains or the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

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.

##### Waste disposal number of used product



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

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**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  
Transport category: 2  
Hazard No: -  
Tunnel restriction code: D

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**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  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Marine pollutant: -

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Special Provisions: 63, 190, 277, 327, 344, 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  
**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

#### 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 28: Petroleum gas, Petroleum gases, liquefied; Naphtha (petroleum), hydrotreated light

Entry 48: toluene

##### Additional information

Contains:

> 30 % aliphatic hydrocarbons

< 5 % aromatic hydrocarbons

< 5 % halogenated hydrocarbons

##### National regulatory information

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)

H220 Extremely flammable gas.

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H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.)*