

## Windscreen Antifreeze Concentrate -60°C

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

#### 1.1. Product identifier

Windscreen Antifreeze Concentrate -60°C

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

##### Use of the substance/mixture

Anti-freezing 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:

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

#### Further Information

Article Number: 11256-2, 11250-2, 11254-2, 11251-2, 11255-2, 11252-2

### SECTION 2: Hazards identification

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

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

Hazard categories:

Flammable liquid: Flam. Liq. 3

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Flammable liquid and vapour.

Causes serious eye irritation.

#### 2.2. Label elements

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

##### Hazard components for labelling

Ethanol.

Signal word: Warning

Pictograms:



##### Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

##### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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P501 present and easy to do. Continue rinsing.  
Dispose of waste according to applicable legislation.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64-17-5	ethanol, ethyl alcohol			20 - 60 %
	200-578-6		01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
107-21-1	ethanediol, ethylene glycol			5 - 15 %
	203-473-3		01-2119456816-28	
	Acute Tox. 4, STOT RE 2; H302 H373			
78-93-3	butanone; ethyl methyl ketone			5 - < 10 %
	201-159-0		01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

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

#### Further Information

Contains:  
Fragrances  
< 5 % anionic surfactants

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove affected person from the danger area and lay down.  
Following inhalation: Move victim to fresh air. Consult physician.  
Immediately remove any wetted clothing, shoes or stockings.

#### After inhalation

If victim is at risk of losing consciousness, position and transport on their side.  
Following inhalation: Move victim to fresh air. Consult physician.

#### 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

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

#### After ingestion

Do NOT induce vomiting.  
Let water be drunk in little sips (dilution effect).  
Put victim at rest, cover with a blanket and keep warm. Consult physician.

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

No information available.

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

No information available.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water fog.  
alcohol resistant foam.**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**Concentrated vapors are heavier than air. Vapours may form explosive mixtures with air.  
Reignition possible over considerable distance.  
Release of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).**5.3. Advice for firefighters**In case of fire: Wear self-contained breathing apparatus.  
Full protective suit.**Additional information**Contaminated fire-fighting water must be collected separately.  
Contaminated fire-fighting water must not get into the sewerage network.**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**Wear personal protection equipment.  
Keep away from unprotected people. Keep upwind.  
Provide adequate ventilation.  
Remove all sources of ignition.  
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).  
Provide adequate ventilation.  
Treat the recovered material as prescribed in the section on waste disposal.**6.4. Reference to other sections**

No data

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**Keep container tightly closed and in a well-ventilated place.  
Provide room air exhaust at ground level.**Advice on protection against fire and explosion**Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
Use only antistatically equipped (spark-free) tools.  
Concentrated vapors are heavier than air. Vapours may form explosive mixtures with air.  
Keep away from sources of ignition. - No smoking.

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Take precautionary measures against static discharges.

### 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.

#### Advice on storage compatibility

Should be stored separately from oxidizing agents.

Do not store together with highly flammable solids.

#### Further information on storage conditions

Keep container tightly closed in a cool and dry place.

Keep container tightly closed and in a well-ventilated place.

Keep in a cool place, 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

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

#### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

### 8.2. Exposure controls

#### Protective and hygiene measures

Take off immediately all contaminated clothing

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin and eyes.

Keep away from food, drink and animal feedingstuffs.

When using do not eat, drink or smoke.

Wash hands before breaks and after work.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Before starting work, apply solvent-resistant skincare preparations.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.



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#### Respiratory protection

Respiratory protection necessary at: Insufficient ventilation.

### SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	blue
Odour:	alcoholic

#### Test method

pH-Value (at 20 °C):	7,5
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#### Changes in the physical state

Initial boiling point and boiling range:	78 °C
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Flash point:	23 °C
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#### Explosive properties

not Explosive.

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	3,5 vol. %
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Upper explosion limits:	19 vol. %
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Ignition temperature:	460 °C
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Density (at 20 °C):	<0,9 g/cm <sup>3</sup>
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#### Solubility in other solvents

Solubility in water: (g/l) complete miscible

#### 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

Exothermic reactions with: Oxidizing agents, strong.

#### 10.4. Conditions to avoid

No information available.

#### 10.5. Incompatible materials

Oxidizing agents, strong.

acid, concentrated.

#### 10.6. Hazardous decomposition products

No decomposition by proper handling and storage.

Hazardous decomposition products:

In case of fire may be liberated: Carbon dioxide. Carbon monoxide.

### 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
64-17-5	ethanol, ethyl alcohol				
	oral	LD50	6200 mg/kg	Rat	IUCLID
	inhalative (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS
107-21-1	ethanediol, ethylene glycol				
	oral	LD50	4700 mg/kg	Rat	GESTIS
	dermal	LD50	10600 mg/kg	Rabbit	GESTIS

### Irritation and corrosivity

Irritant effect on the skin:

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Irritant effect on the eye: Irritant.

### Sensitising effects

no danger of sensitization.

### Additional information on tests

Additional information:

Because of its solubility in water and fats, ethanol, depending on concentration, can have a toxic effect to whole organism.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
64-17-5	ethanol, ethyl alcohol				
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48 h Daphnia magna	IUCLID

### 12.2. Persistence and degradability

Good biological eliminationability.

tensides biologically degradable.

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31
107-21-1	ethanediol, ethylene glycol	-1,36

### 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 allow to enter into surface water or drains.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

Do not dispose with household waste. Do not allow to enter into surface water or drains.  
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.

##### Waste disposal number of waste from residues/unused products

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous substances  
Classified as hazardous waste.

##### Contaminated packaging

Container must be completely emptied.  
Do not pierce, cut up or weld unclean container.  
Residues can constitute potential danger.  
Dispose of this container at recycle or recondition waste collection points.  
Packing which cannot be properly cleaned must be thrown away.

Cleaning agent.  
Water (with cleaning agent).

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Classification code: F1  
Special Provisions: 274 601  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 30  
Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3

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Classification code: F1  
Special Provisions: 274 601  
Limited quantity: 5 L  
Excepted quantity: E1

### Marine transport (IMDG)

**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Marine pollutant: -  
Special Provisions: 223, 274  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-E, S-D

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

**14.1. UN number:** UN 1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S.  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3



Special Provisions: A3 A180  
Limited quantity Passenger: 10 L  
Passenger LQ: Y344  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 355  
IATA-max. quantity - Passenger: 60 L  
IATA-packing instructions - Cargo: 366  
IATA-max. quantity - Cargo: 220 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





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#### National regulatory information

Water contaminating class (D): 1 - slightly 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.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.)*