

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.09.2022

Version number 3 (replaces version 2)

Revision: 15.09.2022

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

1.1 Product identifier

• **Trade name:** Cartechnic Scheibenreiniger mit Frostschutz

• **EAN:**

4027289022352 (500 mL), 4027289022369 (1.000 mL), 4027289022376 (5 L), 4027289022383 (20 L), 4027289022406 (60 L), 4027289022413 (200 L)

• **UFI:** M110-8021-4002-S7CG

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

Windshield cleaner

Anti freeze for wind screen washer

1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier:

Auto-Teile-Ring GmbH

Marie-Curie-Str. 3

D-73770 Denkendorf

Tel: +49 (0) 711 918979-99

E-Mail: info@cartechnic.de

• **Informing department:** Product Safety Department

1.4 Emergency telephone number:

Giftnotruf Berlin

Tel. +49 (0)30 30686 700

Helpdesk in German and in English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to the kidneys through prolonged or repeated exposure.

Route of exposure: Oral.

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 GHS08

• **Signal word** Warning

• **Hazard-determining components of labelling:**

ethane-1,2-diol

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- **Hazard statements**

H226 Flammable liquid and vapour.

H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

- **Precautionary statements**

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.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

- **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:**

Aqueous solution of substances listed below with additional ingredients not requiring labelling. Bitrex is added to the mixture.

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-X	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50%	≥ 25 - < 50%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-X	ethane-1,2-diol ⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302	10%

- **Components according to regulation EC 648/2004 on detergents**

anionic surfactants, amphoteric surfactants	<5%
perfumes (CITRAL, LIMONENE), colouring agent	

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

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information**

Take affected persons into the open air.

Remove contaminated clothing immediately.

- **After inhalation**

Take affected persons into the open air and position comfortably

Supply fresh air; consult doctor in case of symptoms.

- **After skin contact**

Wash with water and soap.

Remove contaminated clothing immediately.

In case of permanent aches and pains please go and see the doctor.

- **After eye contact**

Remove contact lenses if possible.

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Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

Seek medical treatment.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

Consult doctor.

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

eye irritation

sickness

vomiting

· **Danger** Danger of kidney damage.

· **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**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

Formation of flammable mixtures of vapours with air possible.

Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.

Inhalation of combustion gases may cause serious health hazards.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained breathing apparatus.

· **Additional information**

Use water to keep fire exposed containers cool.

Remove goods in stock from incendiary zone, if possible.

SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Keep away from sources of ignition and care for sufficient ventilation due to the content of organic solvents.

· **6.2 Environmental precautions:**

Small amounts usually used during handling can be flushed away with water.

Do not allow to enter drainage system, surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of the material collected according to regulations.

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 information on disposal.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure sufficient ventilation.

Avoid contact with eyes, skin and clothes.

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- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
 - **Requirements to be met by storerooms and containers:** Store in cool location.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
WEL: workplace exposure limit
OEL: Occupational Exposure Limit
IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
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107-21-1 ethane-1,2-diol

IOELV (European Union)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin
WEL (Great Britain)	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour

· DNELs

64-17-5 ethanol

Oral	DNEL (consumer, long-term, systemic)	87 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	343 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	206 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	950 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	114 mg/m ³ (human)
	DNEL (worker, short-term, local)	1,900 mg/m ³ (human)
	DNEL (consumer, short-term, local)	950 mg/m ³ (human)

107-21-1 ethane-1,2-diol

Dermal	DNEL (worker, long-term, systemic)	106 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	53 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, local)	35 mg/m ³ (human)
	DNEL (consumer, short-term, local)	7 mg/m ³ (human)

· PNECs

64-17-5 ethanol

PNEC aqua (freshwater)	0.96 mg/L (.)
PNEC aqua (marine water)	0.79 mg/L (.)
PNEC STP	580 mg/L (.)
PNEC soil	0.63 mg/kg soil dw (.)

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PNEC sediment (freshwater)	3.6 mg/kg sedim. dw (.)
PNEC sediment (marine water)	2.9 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	2.75 mg/L (.)
PNEC oral	0.72 mg/kg food (.)
107-21-1 ethane-1,2-diol	
PNEC aqua (freshwater)	10 mg/L (.)
PNEC aqua (marine water)	1 mg/L (.)
PNEC STP	199.5 mg/L (.)
PNEC soil	1.53 mg/kg soil dw (.)
PNEC sediment (freshwater)	20.9 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	10 mg/L (.)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Do not eat, drink or smoke while working.

Wash hands during breaks and at the end of the work.

· Breathing equipment:

Not necessary if room is well-ventilated.

Breathing apparatus approved for this purpose should be worn when solvent concentration exceeds the maximum workplace concentration values.

Filter Type A.

· Hand protection

No special precautions necessary if used correctly.

Protective gloves are only required in case of intense and/or prolonged skin contact with the product.

To avoid skin problems reduce the wearing of gloves to the required minimum.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Fluorocarbon rubber (Viton)

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Chloroprene rubber, CR

· Eye/face protection



Tightly sealed safety glasses.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:	Light blue
· Odour:	like citrus fruits
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	78 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	2.5 Vol %
· Upper:	53 Vol %
· Flash point:	24 °C
· Ignition temperature:	> 363 °C
· Decomposition temperature:	Not determined.
· SADT	
· pH at 20 °C	7
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	59 hPa
· Density and/or relative density	
· Density at 20 °C	0.93 g/cm ³
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· Solvent content:	
· Organic solvents:	45.0 %
· VOC EU	709.5 - 758.4 g/l
· VOC EU	55.00 %
· Water:	30 - 35 %
· Solids content:	0.6 %
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	
Flammable liquid and vapour.	
· Flammable solids	Void

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· 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:**
None in case of intended use and storage in compliance with instructions.

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 that are relevant for classification:**

64-17-5 ethanol

Oral	LD50	15,010 mg/kg (rat) (OECD 401)
Dermal	LD50	> 20,000 mg/kg (rabbit)
Inhalative	LC50	> 114 mg/l/1h (mouse) (OECD 403)
	LC50	125 mg/l/4h (rat) (OECD 403)

107-21-1 ethane-1,2-diol

Oral	LD50	7,712 mg/kg (rat)
Dermal	LD50	> 3,500 mg/kg (mouse)
Inhalative	LC50	> 2.5 mg/l/6h (rat)

· **Skin corrosion/irritation**

More frequent and continuous contact with the skin may result in irritation of the skin.

- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation**

Sensitive persons can possibly have allergic reactions. This is also valid below the fixed levels of exposure.

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

· **STOT-repeated exposure**

May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

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· Additional toxicological information:
· Repeated dose toxicity
64-17-5 ethanol

Oral	NOAEL (90d)	< 9,700 mg/kg bw/day (mouse)
Inhalative	NOAEC (28d)	> 7,380 mg/m ³ /ppm u (rat)

107-21-1 ethane-1,2-diol

Oral	NOAEL (90d)	150 mg/kg bw/day (rat) (OECD 408)
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· 11.2 Information on other hazards
· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:
64-17-5 ethanol

LC50	14,200 mg/l (fish)
EC50 (static)	5,012 mg/l/48h (Ceriodaphnia dubia) (ASTM E729-80)
EC50 (static)	675 mg/l/96h (Chlorella vulgaris) (OECD 201)
EC50	275 mg/l/120h (Algae)
LC50 (dynamic)	15,300 mg/l/96h (Pimephales promelas) (US EPA E03-05)

107-21-1 ethane-1,2-diol

EC50 (static)	> 10,000 mg/l/16h (Pseudomonas putida) (DIN 38412, part 8)
EC50 (static)	> 100 mg/l/48h (Daphnia magna) (OECD 202)
EC50	6,500 - 13,000 mg/l/96h (Pseudokirchneriella subcapitata) (EPA 600/9-78-018, 1978)
LC50 (static)	72,860 mg/l/96h (Pimephales promelas)

· 12.2 Persistence and degradability biodegradable

· Other information: There are no data available about the preparation.

· 12.3 Bioaccumulative potential Does not accumulate in organisms

· 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

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects
· Additional ecological information:
· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
· Recommendation

The waste code numbers mentioned are recommendations based on the probable use of the product.

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· European waste catalogue

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 04*	other organic solvents, washing liquids and mother liquors
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

· Uncleaned packagings:
· Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.
Cleaned packing materials have to be admitted to local recycling circuits.

· Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR/RID/ADN, IMDG, IATA UN1170

· 14.2 UN proper shipping name

· ADR/RID/ADN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
· IMDG ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
· IATA ETHANOL SOLUTION

· 14.3 Transport hazard class(es)

· ADR/RID/ADN



· Class 3 (F1) Flammable liquids.
· Label 3

· IMDG, IATA



· Class 3 Flammable liquids.
· Label 3

· 14.4 Packing group

· ADR/RID/ADN, IMDG, IATA III

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

· Kemler Number: Warning: Flammable liquids.
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<ul style="list-style-type: none"> · EMS Number: · Stowage Category 	F-E,S-D A
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR/RID/ADN · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · Transport category · Tunnel restriction code 	3 D/E
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, III

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **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.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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- **National regulations**

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

- **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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- **Sources**

The basis for the preparation of this safety data sheet are the information provided by the distributor.