

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 16.07.2018

Version number 105

Revision: 12.06.2018

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

### - 1.1 Product identifier

- Trade name **Cartechnic Frostschutz SWA -20°C Ausg.**

- Article number: 1001546626017

### - 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 antifreeze

### - 1.3 Details of the supplier of the safety data sheet

#### - Manufacturer/Supplier:

Auto-Teile-Ring GmbH

Otto-Hirsch-Brücken 17

D-70329 Stuttgart

Tel: +49 (0) 711 918979-99

Fax: +49 (0) 711 918979-30

E-mail: info@cartechnic.de

- Informing department: Product safety department

### - 1.4 Emergency telephone number:

National Poisons Information Service (NPIS) - Emergency call (healthcare professionals): (+44) 844 892 0111 - 0344 892 0111

## SECTION 2: Hazards identification

### - 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

### - 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

- Signal word Warning

- Hazard statements

H226 Flammable liquid and vapour.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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

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 [or shower].

P403+P235 Store in a well-ventilated place. Keep cool.

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

(Contd. on page 2)

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(Contd. of page 1)

- **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:** Mixture of the substances listed below with harmless additions

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol	Flam. Liq. 2, H225; Eye Irrit. 2, H319	25-50%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28	ethane-1,2-diol	STOT RE 2, H373; Acute Tox. 4, H302	2.5-10%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.
- **Composition/Ingredients**  
Constituents according to EC-Regulation 648/2004:  
perfumes  
further components: alcohols, glycols, surfactants and colouring substances.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**  
In general the product does not cause skin irritation.  
Wash with soap and water.
- **After eye contact**  
Rinse immediately opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**  
Rinse out mouth with water.  
Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **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**  
CO<sub>2</sub>, extinguishing powder 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**  
Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

(Contd. on page 3)

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(Contd. of page 2)

**- Additional information**

Endangered containers in the surrounding area should be cooled with a water-hose.

**SECTION 6: Accidental release measures****- 6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep off unprotected persons

Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.

**- 6.2 Environmental precautions:**

Prevent material from reaching sewage system, holes and cellars.

Dilute with much water.

If large amounts are released, the authorities must be informed.

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

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

Contaminated material has to be disposed as waste (see item 13).

Residues: rinse away with plenty of water.

**- 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 good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.

**- Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**- 7.2 Conditions for safe storage, including any incompatibilities****- Storage**

Protect against direct sunlight, other sources of heat and ignition.

Store in cool, dry conditions in well sealed containers.

**- Requirements to be met by storerooms and containers:**

Observe official regulations on storage and handling of water hazardous substances

Store in original container if possible.

**- Information about storage in one common storage facility:**

Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.

**- Further information about storage conditions: None.****- Storage class 3 (VCI - Konzept, 2007)****- 7.3 Specific end use(s) No further relevant information available.****SECTION 8: Exposure controls/personal protection****- Additional information about design of technical systems:**

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

(Contd. on page 4)

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(Contd. of page 3)

**- 8.1 Control parameters****- Components with critical values that require monitoring at the workplace:****64-17-5 ethanol (25-50%)**WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm**107-21-1 ethane-1,2-diol (2.5-10%)**

WEL Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppm  
 Long-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm  
 Sk \*particulate \*\*vapour

**- DNELs****64-17-5 ethanol**

Oral	DNEL (population)	87 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	343 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	206 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	1,900 mg/m <sup>3</sup> (Acute, local effects)
		950 mg/m <sup>3</sup> (Long-term, systemic effects)
	DNEL (population)	950 mg/m <sup>3</sup> (Acute, local effects)
		114 mg/m <sup>3</sup> (Long-term, systemic effects)

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

Dermal	DNEL (worker)	106 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	53 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	35 mg/m <sup>3</sup> (Long-term - local effects)
	DNEL (population)	7 mg/m <sup>3</sup> (Long-term - local effects)

**- PNECs****64-17-5 ethanol**

PNEC water	2.75 mg/l (intermittent releases)
	0.96 mg/l (freshwater)
	0.79 mg/l (marine water)
PNEC sediment	3.6 mg/kg dw (freshwater)
	2.9 mg/kg dw (marine water)
PNEC soil	0.63 mg/kg dw (soil)
PNEC STP	580 mg/l (sewage plant)

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

PNEC water	10 mg/l (intermittent releases)
	10 mg/l (freshwater)
	1 mg/l (marine water)
PNEC sediment	20.9 mg/kg dw (freshwater)
PNEC sediment	37 mg/kg (freshwater)
	3.7 mg/kg (marine water)
PNEC STP	199.5 mg/l (sewage plant)
PNEC soil	1.53 mg/kg (soil)

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

(Contd. on page 5)

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(Contd. of page 4)

- **8.2 Exposure controls**
  - **Personal protective equipment**
  - **General protective and hygienic measures**  
 Wash hands during breaks and at the end of the work.  
 Avoid contact with the eyes and skin.  
 Gases, fumes and aerosols should not be inhaled.
  - **Breathing equipment:** Not necessary if room is well-ventilated.
  - **Protection of hands:**  
 Protective gloves and protective skin cream.  
 Check the permeability prior to each renewed use of the glove.
  - **Material of gloves**  
 Butyl rubber, BR  
 Fluorocarbon rubber (Viton)  
 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.
  - **Penetration time of glove material**  
 Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.
  - **Eye protection:** Safety glasses recommended during refilling.
  - **Body protection:** Protective work clothing.
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## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**

Form:	Fluid
Colour:	Blue
  - **Smell:** Alcohol-like, citrus-like
  - **Odour threshold:** Not determined.
- 
- **pH-value at 20 °C:** ~ 7.5
- 
- **Change in condition**  
 Melting point/freezing point:

ERROR: undefined  
OFFENDING COMMAND: CMAP-WinCharSetFFFF-H2

STACK: