

Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

Page 1/9

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

· 1.1 Product identifier

· Trade name: Antifreeze Conc. GW11

- · 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: Hengst SE
 Nienkamp 55-85
 48147 Münster
 Germany

 $\begin{array}{c} T + 49 \ (0) 251 \ 20 \ 20 \ 2\text{-}0 \\ F + 49 \ (0) 251 \ 20 \ 20 \ 2\text{-}646 \end{array}$ 

- Further information obtainable from: oil@hengst.com
- · 1.4 Emergency telephone number:

Informationszentrale gegen Vergiftungen Uni - Klinikum Bonn; Notfall - Nr.: +49 228 19 240

## SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008



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

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

· 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* 



· Signal word Warning







Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

Page 2/9

Trade name: Antifreeze Conc. GW11

(Contd. of page 1) · Hazard-determining components of labelling: ethanediol · Hazard statements H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. · 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. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 Rinse mouth. P314 Get medical advice/attention if you feel unwell. 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 Chemical characterisation: Mixtures

· Description: Mixture: consisting of the following components.

#### · Dangerous components:

	0					
	CAS: 107-21-	1	ethanediol	50-100%		
	EINECS: 203-	-473-3	🚸 STOT RE 2, H373; 🚯 Acute Tox. 4, H302			
Index number: 603-027-00-1						
	CAS: 12179-0	94-3	disodium tetraborate pentahydrate	<i>≤</i> 2.5%		
	EINECS: 215-	-540-4	<b>&amp;</b> Repr. 1B, H360FD			
	Index number: 005-011-02-9					
· SVHC						
	12170 04 2 disodium totraborate pontabudante					

*12179-04-3 disodium tetraborate pentahydrate* 

· 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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

(Contd. on page 3) EU Made in Germany





Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

(Contd. of page 2)

Page 3/9

#### Trade name: Antifreeze Conc. GW11

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Call for a doctor immediately.
- 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:
- CO2, powder or water spray. Fight larger fires with water spray.
- Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released:
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

- $\cdot$  6.1 Personal precautions, protective equipment and emergency procedures
- Keep people at a distance and stay on the windward side.
- · 6.2 Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ 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, sawdust). Dispose contaminated material as waste according to item 13.
- 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 disposal information.

## SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Information about fire - and explosion protection: No special measures required.



(Contd. on page 4) EU





Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

(Contd. of page 3)

Page 4/9

Trade name: Antifreeze Conc. GW11

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Storage in a collecting room is required.

• 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- 107-21-1 ethanediol

IOELV Short-term value: 104 mg/m<sup>3</sup>, 40 ppm

Long-term value: 52 mg/m<sup>3</sup>, 20 ppm

Skin

• Additional information: The lists valid during the making were used as basis.

### · 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Wash hands before breaks and at the end of work.
- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- $\cdot$  Not suitable are gloves made of the following materials: Leather gloves
- · Eye protection: Goggles recommended during refilling

EU (Contd. on page 5)



Made in Germany



Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

(Contd. of page 4)

Page 5/9

Trade name: Antifreeze Conc. GW11

**SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information Appearance: clear · Form: Fluid · Colour: According to product specification · Odour: Characteristic · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/freezing point: Undetermined. Initial boiling point and boiling range: 180 °C (DIN 51751) Not applicable · Pour point 122 °C (DIN ISO 2592) · Flash point: · Flammability (solid, gas): Not applicable. 410 °C (DIN 14522) · Ignition temperature: · Decomposition temperature: Not determined. • Auto-ignition temperature: Not determined. · Explosive properties: Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. · Explosion limits: 3.2 Vol % (DIN EN 1839) Lower: 53.0 Vol % (DIN EN 1839) Upper: · Vapour pressure at 20 °C: 0.1 hPa 1.11 g/cm<sup>3</sup> (DIN 51757) • Density at 20 °C: Not determined. · Relative density · Vapour density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Fully miscible. water: Not determined. · Partition coefficient: n-octanol/water: · Viscosity: Not determined. Dynamic: Kinematic: Not determined. · Solvent content: 0.0 % Organic solvents: (Contd. on page 6)





EU



Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

(Contd. of page 5)

Page 6/9

Trade name: Antifreeze Conc. GW11

• 9.2 Other information

No further relevant information available.

### 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
- Reacts with strong acids and oxidising agents.
- Reacts with strong oxidising agents.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

# SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed.
- · LD/LC50 values relevant for classification:

#### 107-21-1 ethanediol

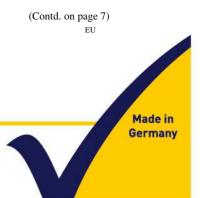
Oral LD50 5840 mg/kg (rat)

Dermal LD50 9530 mg/kg (rabbit)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

# SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- $\cdot$  12.2 Persistence and degradability No further relevant information available.







Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

(Contd. of page 6)

Page 7/9

Trade name: Antifreeze Conc. GW11

• Degree of elimination:

107-21-1 ethanediol

EC50 6500 mg/kg (Alg)

13000 mg/kg (SwF)

9300 mg/kg (daphnia)

· 12.3 Bioaccumulative potential No further relevant information available.

• 12.4 Mobility in soil No further relevant information available.

• 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 course or sewage system.

· 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Delivery of waste oil to offically authorised collectors only.

• European waste catalogue

16 01 14\* antifreeze fluids containing hazardous substances

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

## **SECTION 14: Transport information**

· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDĞ, IATA	Void
<ul> <li>14.5 Environmental hazards:</li> </ul>	
• Marine pollutant:	No





Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

(Contd. of page 7)

Trade name: Antifreeze Conc. GW11

• 14.6 Special precautions for user Not applicable.

- 14.7 Transport in bulk according to Annex II of
- Marpol and the IBC CodeNot applicable.· UN ''Model Regulation'':Void

### **SECTION 15: Regulatory information**

- $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms



#### · Signal word Warning

- · Hazard-determining components of labelling:
- ethanediol
- · Hazard statements
- H302 Harmful if swallowed.

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

#### · 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.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- *P314 Get medical advice/attention if you feel unwell.*
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Additional classification according to Decree on Hazardous Materials, Annex II: Void
- · Other regulations, limitations and prohibitive regulations None





Page 8/9



Printing date 04.09.2018

Version number 2

Revision: 04.09.2018

(Contd. of page 8)

Page 9/9

#### Trade name: Antifreeze Conc. GW11

• Substances of very high concern (SVHC) according to REACH, Article 57 None

12179-04-3 disodium tetraborate pentahydrate

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

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H302 Harmful if swallowed.
H360FD May damage fertility. May damage the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.

· Department issuing SDS: Product safety

· Abbreviations and acronyms: ADR: Accord européen sur le transport 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) 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 Acute Tox. 4: Acute toxicity – Category 4 Repr. 1B: Reproductive toxicity - Category 1B STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 · Sources Concawe Product Dossier No.97/108. Concawe Product Dossier Nn. 01/54.

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