

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.10.2021

Version: 2.00

Revision: 22.04.2021

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

1.1 Product identifier

Trade name: SONAX Antifreeze & clear view icefresh concentrate

Article number: 01331000, 01331340, 01338000

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

Sector of Use

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category

PC4 Anti-Freeze and de-icing products

PC35 Washing and cleaning products (including solvent based products)

Application of the substance / the mixture Car care product

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

Further information obtainable from:

Product safety

E-mail: erp@sonax.de

Phone: + +49 (0) 8431 53 217

United Kingdom:

Anglo American Oil Company Ltd

58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT

Telephone: (+44) 01929 551557

Email: info@aaoil.co.uk

1.4 Emergency telephone number:

European Union: +49 (0) 89 19240 (Poison Centre Munich)

United Kingdom: 0344 892 0111 (UK NPIS)

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24 by dialling 111

In Northern Ireland, contact your local GP

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.

Eye Irrit. 2 H319 Causes serious eye irritation.

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 GHS07

Signal word Warning

Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

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

P102 Keep out of reach of children.

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

P280 Wear eye protection.

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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.

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.

Determination of endocrine-disrupting properties Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Aqueous formulation of alcohol, glycol and tensides.

Dangerous components:

| | | |
|--|---|---------|
| CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx | ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 % | 50-<75% |
| CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-xxxx | ethanediol ⚠ STOT RE 2, H373; ⚠ Acute Tox. 4, H302 | 5-<10% |

Regulation (EC) No 648/2004 on detergents / Labelling for contents

| | |
|---------------------|-----|
| anionic surfactants | <5% |
| perfumes | |

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: Remove soiled clothing

After inhalation: Supply fresh air.

After skin contact:

Generally the product does not irritate the skin.

Wash the areas of skin affected with water and a mild detergent.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed Eye irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Water spray

Fire-extinguishing powder

Alcohol resistant foam

Carbon dioxide

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:

Carbon monoxide and carbon dioxide

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5.3 Advice for firefighters**Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

Do not enter the hazardous area without a self-contained breathing apparatus.

See Section 8 for information on personal protection equipment.

Additional information

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

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

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Ensure adequate ventilation

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

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.

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.**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.**Information about storage in one common storage facility:**

Store away from foodstuffs.

Observe local/state/federal regulations.

Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

Recommended storage temperature: 20 °C.

7.3 Specific end use(s) No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 64-17-5 ethanol**WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

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CAS: 107-21-1 ethanediol

| | |
|---------------------|--|
| 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 |
| IOELV (EU) | Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin |

Regulatory information

WEL (Great Britain): EH40/2018
IOELV (EU): (EU) 2017/164

DNELs

CAS: 64-17-5 ethanol

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

CAS: 107-21-1 ethanediol

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

PNECs

CAS: 64-17-5 ethanol

| | |
|------|---|
| PNEC | 0.96 mg/l (water (fresh water)) 0.79 mg/l (water (sea water)) |
| PNEC | 3.6 mg/kg (sediment (fresh water)) 2.9 mg/kg (sediment (sea water)) 0.63 mg/kg (soil) |

CAS: 107-21-1 ethanediol

| | |
|------|---|
| PNEC | 199.5 mg/l (STP) 10 mg/l (water (intermittent release)) 10 mg/l (water (fresh water)) 1 mg/l (water (sea water)) |
| PNEC | 1.53 mg/kg (gro) 37 mg/kg (sediment (fresh water)) (dry weight) 3.7 mg/kg (sediment (sea water)) (dry weight) |

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

8.2 Exposure controls

Suitable technical control devices

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection:

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace.

Hand protection Not required in normal cases.

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Eye/face protection

Goggles recommended during refilling
[EN 166]

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information**

| | |
|---|-----------------------------------|
| Physical state | Fluid |
| Colour: | türkis |
| Odour: | Fruit-like |
| Melting point/freezing point: | Undetermined. |
| Boiling point or initial boiling point and boiling range | 78 - 200 °C |
| Flammability | Not applicable. |
| Lower and upper explosion limit | |
| Lower: | 3.5 Vol.% (Main ingredient data) |
| Upper: | 15.0 Vol.% (Main ingredient data) |
| Flash point: | 23 °C (EN ISO 1523) |
| Auto-ignition temperature: | Not determined. |
| Decomposition temperature: | Not determined. |
| pH (10 g/l) | 5.5 - 6.5 |
| Viscosity: | |
| Kinematic viscosity at 40 °C | <20.5 mm ² /s |
| Solubility | |
| water: | Fully miscible. |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure: | Not determined. |
| Density and/or relative density | |
| Density at 20 °C: | 0.90 - 0.91 g/cm ³ |
| Relative density | Not determined. |
| Vapour density | Not determined. |

9.2 Other information

| | |
|--|---|
| Appearance: | |
| Form: | Fluid |
| Important information on protection of health and environment, and on safety. | |
| Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| 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 |
| 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 |

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Corrosive to metals
Desensitised explosives

Void
Void

SECTION 10: Stability and reactivity

10.1 Reactivity No dangerous reactions known.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions Develops readily flammable gases/fumes.

10.4 Conditions to avoid

Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

10.5 Incompatible materials: strong oxidizing agents

10.6 Hazardous decomposition products: No dangerous decomposition products known.

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 relevant for classification:

CAS: 64-17-5 ethanol

| | | |
|------------|---------|--------------------------|
| Oral | LD50 | 5,560 mg/kg (guinea pig) |
| | | 3,450 mg/kg (mouse) |
| | | 7,060 mg/kg (rat) |
| | | 6,300 mg/kg (rabbit) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| Inhalative | LC50/4d | 20,000 mg/l (rat) |

CAS: 107-21-1 ethanediol

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

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

Additional toxicological information:

Repeated dose toxicity

CAS: 64-17-5 ethanol

| | | |
|------|-------|-------------------|
| Oral | LOAEL | 3,160 mg/kg (rat) |
| | NOAEL | 1,730 mg/kg (rat) |

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information

12.1 Toxicity There are no ecotoxicological data available on this mixture.

Aquatic toxicity:

CAS: 64-17-5 ethanol

| | |
|------------|---------------------------------|
| LC50 / 48h | 8,140 mg/l (Leuciscus idus) |
| LC50 / 24h | >100 mg/l (Daphnia magna) |
| EC5 / 16h | 6,500 mg/l (Pseudomonas putida) |
| EC50 / 48h | 9,268 mg/l (Daphnia magna) |

CAS: 107-21-1 ethanediol

| | |
|--------------|--|
| LC50 / 96h | 72,860 mg/l (Pimephales promelas) |
| EC20 / 0.5 h | >1,995 mg/l (activated sludge) |
| EC50 / 48h | >100 mg/l (Daphnia magna) |
| EC50 / 96 h | 6,500-13,000 mg/l (Pseudokirchneriella subcapitata) |
| NOEC / 7 d | 8,590 mg/l (Ceriodaphnia Dubia) (EPA 600/4-89/001) |
| | 15,380 mg/l (Pimephales promelas) (EPA 600/4-89/001) |

12.2 Persistence and degradability

The surface-active substances contained in the product meet the requirement of the EU Detergent Regulation (EC/648/2004) for ultimate biodegradability for surfactants in detergents.

12.3 Bioaccumulative potential

CAS: 107-21-1 ethanediol

| | |
|---------|--------------|
| log POW | 1.36 log POW |
|---------|--------------|

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 For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Additional ecological information:

General notes:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste classified as hazardous according to Annex III to Directive 2008/98/EC.

Recommendation Waste must be disposed of while observing the local, official regulations.

European waste catalogue

- 1) Disposal / product
- 2) Disposal / contaminated packaging

| | |
|-----------|--|
| 20 01 29* | detergents containing hazardous substances |
| 15 01 10* | packaging containing residues of or contaminated by hazardous substances |

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
IMDG, IATA

1170 ETHANOL SOLUTION
ETHANOL SOLUTION

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14.3 Transport hazard class(es)

ADR/RID/ADN, 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**

Warning: Flammable liquids.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:**ADR/RID/ADN****Limited quantities (LQ)** 5L**Transport category** 3**Tunnel restriction code** D/E**UN "Model Regulation":**

UN 1170 ETHANOL SOLUTION, 3, III

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

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

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.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids

On basis of test data

Serious eye damage/eye irritation

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Version number of previous version: 1.99**Abbreviations and acronyms:**

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = letal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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*ATE: acute toxicity estimate**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**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**IOELV = indicative occupational exposure limit values**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**

"Regulation (EC) Nr. 1907/2006 (REACH), 1272/2008 (CLP), 648/2004 (Detergents) in the respective valid version. National occupation exposure limits for each country in the respective valid version. Transportation regulations according to ADR, RID, IMDG, IATA in the respective valid version."

*** Data compared to the previous version altered.**

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