

**Safety data sheet  
according to UK REACH**

Printing date 15.04.2026

Version: 1.00

Revision: 14.04.2026

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** SONAX Window De-Icer Ice-fresh**Article number:**

01303410

**UFI:** 0N57-K0HQ-T00F-2KKJ**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Anti-Freeze and de-icing products

Consumer uses: Private households / general public / consumers

Professional uses

**Uses advised against** There is currently no information available on this.**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](mailto: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](mailto: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.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**

GHS02

**Signal word** Warning**Hazard statements**

H226 Flammable liquid and vapour.

**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.

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

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

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**vPvB:**

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB.

**Determination of endocrine-disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

**Description:** Formulation of alcohol and additives.

**Dangerous components:**

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

**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; consult doctor in case of complaints.

**After skin contact:** 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**

No further relevant information available.

**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 (CO)

Carbon dioxide (CO<sub>2</sub>)

**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.

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**Additional information**

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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** Ensure adequate ventilation  
For non-emergency personnel

Wear protective clothing.

Keep away from ignition sources.

For emergency responders Wear protective equipment. Keep unprotected persons away.

**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 section 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.

Buildup of explosive mixtures possible without sufficient ventilation.

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Highly volatile, flammable constituents are released during processing.

**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/m<sup>3</sup>, 1000 ppm

OEL (Ireland) Short-term value: 1000 ppm

**CAS: 107-21-1 ethanediol**WEL (Great Britain) Short-term value: 104\*\* mg/m<sup>3</sup>, 40\*\* ppmLong-term value: 10\* 52\*\* mg/m<sup>3</sup>, 20\*\* ppm

Sk \*particulate \*\*vapour

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|               |                                                                                                                   |
|---------------|-------------------------------------------------------------------------------------------------------------------|
| IOELV (EU)    | Short-term value: 104 mg/m <sup>3</sup> , 40 ppm<br>Long-term value: 52 mg/m <sup>3</sup> , 20 ppm<br>Skin        |
| OEL (Ireland) | Short-term value: 104 mg/m <sup>3</sup> , 40 ppm<br>Long-term value: 52 mg/m <sup>3</sup> , 20 ppm<br>Skin, IOELV |

### Regulatory information

WEL (Great Britain): EH40/2020

OEL (Ireland): 2024 CoP for the Safety, Health and Welfare at Work

IOELV (EU): (EU) 2019/1831

### 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)<br>343 mg/kg bw/day (worker) (long-term exposure - systemic effects)                     |
| Inhalative | DNEL | 950 mg/m <sup>3</sup> (consumer) (acute short-term exposure - local effects)<br>1,900 mg/m <sup>3</sup> (worker) (acute short-term exposure - local effects) |
|            | DNEL | 114 mg/m <sup>3</sup> (consumer) (long-term exposure - systemic effects)<br>950 mg/m <sup>3</sup> (worker) (long-term exposure - systemic effects)           |

#### CAS: 107-21-1 ethanediol

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

### PNECs

#### CAS: 64-17-5 ethanol

|      |                                                                                             |
|------|---------------------------------------------------------------------------------------------|
| PNEC | 580 mg/l (sewage plant)<br>0.96 mg/l (water (fresh water))<br>0.79 mg/l (water (sea water)) |
| PNEC | 3.6 mg/kg (sediment (fresh water))<br>0.63 mg/kg (soil)                                     |

#### CAS: 107-21-1 ethanediol

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

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

##### Respiratory protection:

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace.

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**Hand protection** Not required in normal cases.  
**Eye/face protection** Not required in normal cases

### SECTION 9: Physical and chemical properties

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

##### General Information

|                                                                 |                                  |
|-----------------------------------------------------------------|----------------------------------|
| <b>Physical state</b>                                           | Liquid                           |
| <b>Colour:</b>                                                  | türkis                           |
| <b>Odour:</b>                                                   | Fresh                            |
| <b>Melting point/freezing point:</b>                            | Undetermined.                    |
| <b>Boiling point or initial boiling point and boiling range</b> | 78-200 °C                        |
| <b>Flammability</b>                                             | Flammable liquid and vapour.     |
| <b>Lower and upper explosion limit</b>                          |                                  |
| <b>Lower:</b>                                                   | 3.5 Vol % (CAS: 64-17-5 ethanol) |
| <b>Upper:</b>                                                   | 15 Vol % (CAS: 64-17-5 ethanol)  |
| <b>Flash point:</b>                                             | 24 °C (DIN 51755)                |
| <b>Decomposition temperature:</b>                               | Not determined.                  |
| <b>pH at 20 °C</b>                                              | 7-8                              |
| <b>Viscosity:</b>                                               |                                  |
| <b>Kinematic viscosity at 20 °C</b>                             | 10-12 s (DIN 53211/4)            |
| <b>Dynamic:</b>                                                 | Not determined.                  |
| <b>Solubility</b>                                               |                                  |
| <b>water:</b>                                                   | Fully miscible.                  |
| <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.                  |
| <b>Vapour pressure at 20 °C:</b>                                | 59 hPa (CAS: 64-17-5 ethanol)    |
| <b>Vapour pressure at 50 °C:</b>                                | 280 hPa                          |
| <b>Density and/or relative density</b>                          |                                  |
| <b>Density at 20 °C:</b>                                        | 0.92-0.93 g/cm³                  |
| <b>Vapour density</b>                                           | Not determined.                  |

#### 9.2 Other information

|                                                                                      |                                                                                             |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Appearance:</b>                                                                   |                                                                                             |
| <b>Form:</b>                                                                         | Fluid                                                                                       |
| <b>Important information on protection of health and environment, and on safety.</b> |                                                                                             |
| <b>Ignition temperature:</b>                                                         | Not determined.                                                                             |
| <b>Explosive properties:</b>                                                         | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| <b>Change in condition</b>                                                           |                                                                                             |
| <b>Evaporation rate</b>                                                              | Not determined.                                                                             |

#### Information with regard to physical hazard classes

|                                                                                  |                              |
|----------------------------------------------------------------------------------|------------------------------|
| <b>Explosives</b>                                                                | Void                         |
| <b>Flammable gases</b>                                                           | Void                         |
| <b>Aerosols</b>                                                                  | Void                         |
| <b>Oxidising gases</b>                                                           | Void                         |
| <b>Gases under pressure</b>                                                      | Void                         |
| <b>Flammable liquids</b>                                                         | Flammable liquid and vapour. |
| <b>Flammable solids</b>                                                          | Void                         |
| <b>Self-reactive substances and mixtures</b>                                     | Void                         |
| <b>Pyrophoric liquids</b>                                                        | Void                         |
| <b>Pyrophoric solids</b>                                                         | Void                         |
| <b>Self-heating substances and mixtures</b>                                      | Void                         |
| <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void                         |
| <b>Oxidising liquids</b>                                                         | Void                         |
| <b>Oxidising solids</b>                                                          | Void                         |
| <b>Organic peroxides</b>                                                         | Void                         |
| <b>Corrosive to metals</b>                                                       | Void                         |

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Desensitised explosives

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      | 10,470 mg/kg (rat)    |
| Dermal     | LD50      | >2,000 mg/kg (rabbit) |
| Inhalative | LC50 / 4h | >20 mg/l (mouse)      |
|            |           | 38 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)      |

**Primary irritant effect:****Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Values relevant for classification:****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.**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 | NOAEL | 1,760 mg/kg (rat) (OECD 408, 90d, target organ: liver) |
|------|-------|--------------------------------------------------------|

**11.2 Information on other hazards****Endocrine disrupting properties**

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with health effects.

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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)   |
| EC50 / 48h | >10,000 mg/l (Daphnia magna)  |
| EC50 / 72h | 275 mg/l (Chlorella vulgaris) |

**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** No further relevant information available.

### 12.3 Bioaccumulative potential

**CAS: 107-21-1 ethanediol**

log POW <1.36

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

#### PBT:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as PBT

#### vPvB:

According to information provided in the supply chain, the mix contains less than 0.1% of any substances classified as vPvB

### 12.6 Endocrine disrupting properties

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.

### 12.7 Other adverse effects

#### Additional ecological information:

**General notes:** The product may not be released into the environment without control.

## 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 13* | solvents                                                                 |
| 15 01 10* | packaging containing residues of or contaminated by hazardous substances |
| HP3       | Flammable                                                                |

#### Uncleaned packaging:

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

## SECTION 14: Transport information

**14.1 UN number or ID number**  
ADR/RID/ADN, IMDG, IATA

UN1170

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### 14.2 UN proper shipping name

ADR/RID/ADN

IMDG, IATA

1170 ETHANOL solution

ETHANOL solution

### 14.3 Transport hazard class(es)

ADR/RID/ADN



Class

Label

3 (F1) Flammable liquids.

3

IMDG, IATA



Class

Label

3 Flammable liquids.

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 Poisons Act

#### Regulated explosives precursors

None of the ingredients is listed.

#### Regulated poisons

None of the ingredients is listed.

#### Reportable explosives precursors

None of the ingredients is listed.

#### Reportable poisons

None of the ingredients is listed.

#### European Directives:

Directive 2010/75/EU (VOC) 87.49 %

Catégorie SEVESO (DIRECTIVE 2012/18/EU) P5c FLAMMABLE LIQUIDS

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### 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.

#### National regulations:

##### Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles must be observed.

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

**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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

#### 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

#### Abbreviations and acronyms:

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = lethal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK 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