

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

1.1 Product identifier

Trade name: SONAX Window De-Icer

Article number:

03313410-540

UFI: 0391-J03R-N00A-RTQD

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

Application of the substance / the mixture

Car care product

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

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

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

Additional information:

Sustained combustibility test ISO 9038/UN manual of tests and criteria (32.5.2):

no self-sustained combustion

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



GHS08

Signal word Warning

Hazard statements

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

Precautionary statements

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

P102 Keep out of reach of children.

P314 Get medical advice/attention if you feel unwell.

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

(Contd. on page 2)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

(Contd. of page 1)

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

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/this mixture contains components that exhibit or are suspected of exhibiting endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

CAS: 78-93-3 butanone

List II

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Formulation of alcohol and additives.

Dangerous components:

CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-xxxx	ethanediol STOT RE 2, H373; Acute Tox. 4, H302	15-<20%
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 %	10-<15%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-xxxx	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	<0.25%

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

Headache

Nausea

Dizziness

Drowsiness

Reddening, drying and crack formation of the skin

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: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

The normal measures for firefighting are to be taken.

(Contd. on page 3)

GB

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

(Contd. of page 2)

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 Ensure adequate ventilation For non-emergency personnel

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

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

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

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

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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 No special precautions are necessary if used correctly.**Information about fire - and explosion protection:** No special measures required.**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:

Recommended storage temperature: 20 °C.

Protect from heat and direct sunlight.

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: 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

OEL (Ireland)	Short-term value: 40 mg/m ³ , 104 ppm
	Long-term value: 52 mg/m ³ , 20 ppm
	Sk, IOELV

CAS: 64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
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OEL (Ireland)	Short-term value: 1000 ppm
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(Contd. on page 4)

GB

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

(Contd. of page 3)

CAS: 78-93-3 butanone

WEL (Great Britain)	Short-term value: 899 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, BMGV
IOELV (EU)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm
OEL (Ireland)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm Sk, IOELV

Regulatory information

WEL (Great Britain): EH40/2020

IOELV (EU): (EU) 2019/1831

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

DNELs

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)

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) (long-term exposure - systemic effects)
Inhalative	DNEL	950 mg/m ³ (consumer) (acute short-term exposure - local effects) 1,900 mg/m ³ (worker) (acute short-term 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: 78-93-3 butanone

Oral	DNEL	31 mg/kg bw/day (consumer) (longterm systematic effects) 1,161 mg/kg bw/day (worker) (longterm systematic effects)
Dermal	DNEL	412 mg/kg bw/day (consumer)
Inhalative	DNEL	106 mg/m ³ (consumer) (longterm systematic effects) 600 mg/m ³ (worker) (longterm systematic effects)

PNECs

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)

CAS: 64-17-5 ethanol

PNEC	580 mg/l (sewage plant) 0.96 mg/l (water (fresh water)) 0.79 mg/l (water (sea water))
PNEC	3.6 mg/kg (sediment (fresh water)) 0.63 mg/kg (soil)

CAS: 78-93-3 butanone

PNEC	55.8 mg/l (sporadic release) 709 mg/l (STP) 55.8 mg/l (water (fresh water))
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(Contd. on page 5)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

(Contd. of page 4)

PNEC	55.8 mg/l (water (sea water)) 284.7 mg/kg (sediment) 22.5 mg/kg (soil)
Ingredients with biological limit values:	
CAS: 78-93-3 butanone	
BMGV (Great Britain)	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one

Regulatory information BMGV (Great Britain): EH40/2011

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.

Hand protection Not required in normal cases.

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:

Colourless

Odour:

Alcohol-like

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

Undetermined.

Flammability

Flammable.

Lower and upper explosion limit

Lower:

Not determined.

Upper:

Not determined.

Flash point:

38.5 °C

Decomposition temperature:

Not determined.

pH at 20 °C

7-8

Viscosity:

Kinematic viscosity at 40 °C

<20.5 mm²/s

Solubility

water:

Fully miscible.

Partition coefficient n-octanol/water (log value)

Not determined.

Vapour pressure at 20 °C:

59 hPa (CAS: 64-17-5 ethanol)

Density and/or relative density

Density at 20 °C:

0.99-1 g/cm³

Vapour density

Not determined.

(Contd. on page 6)

GB

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

(Contd. of page 5)

9.2 Other information

Appearance:

Form:

Fluid

Important information on protection of health and environment, and on safety.

Ignition temperature:

Not determined.

Explosive properties:

Not determined.

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

Sustained combustibility test ISO 9038/UN manual of tests and criteria (32.5.2):
no self-sustained combustion

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

Corrosive to metals

Void

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 No dangerous reactions known.

10.4 Conditions to avoid 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: 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)

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)

(Contd. on page 7)

GB

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

(Contd. of page 6)

CAS: 78-93-3 butanone

Oral	LD50	>2,193 mg/kg (rat) (OECD 423)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4d	34 mg/l (Ratte)

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.

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.

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

Oral	NOAEL	1,760 mg/kg (rat) (OECD 408, 90d, target organ: liver)
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CAS: 78-93-3 butanone

Inhalative	NOAEC	0.5041 mg/m ³ (rat) (OECD-Prüfrichtlinie 413)
	LOAEC 18d; 7h/d	3,000 ppm (rat) (OECD 414)
	NOAEC 18d, 7h/day	1.002 ppm (rat) (OECD 414)

11.2 Information on other hazards
Endocrine disrupting properties

The product contains substances suspected of causing endocrine disruptions with health effects.

CAS: 78-93-3 butanone

List II

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
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)

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: 78-93-3 butanone

Oral	EC0/16h	1,150 mg/l (Pseudomonas putida) (statistischer Test; DIN 38412)
	LC50 / 96h	2,993 mg/l (Pimephales promelas) (statistischer Test, OECD-Prüfrichtlinie 203)
	EC50 / 48h	308 mg/l (Daphnia magna) (Statistischer Test, OECD-Prüfrichtlinie 202)
	EC50 / 72h	1,972 mg/l (Grünalge Pseudokirchneriella subcapitata) (statistischer Test, OECD-Prüfrichtlinie 201)

(Contd. on page 8)

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

(Contd. of page 7)

12.2 Persistence and degradability**CAS: 78-93-3 butanone**

Biodegradation 98 % (OECD 301 D)

12.3 Bioaccumulative potential**CAS: 107-21-1 ethanediol**

log POW -1.36

CAS: 78-93-3 butanone

log Kow 0.3

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**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

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 Void

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA

Class Void

14.4 Packing group

ADR/RID/ADN, IMDG, IATA Void

14.5 Environmental hazards: Not applicable.**14.6 Special precautions for user** Not applicable.**Transport/Additional information:** Sustained combustibility test ISO 9038/UN manual of tests and criteria (32.5.2):
no self-sustained combustion

(Contd. on page 9)

GB

Safety data sheet according to UK REACH

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

(Contd. of page 8)

UN "Model Regulation":

Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
European Directives:

Directive 2010/75/EU (VOC) 29.25 %

Catégorie SEVESO (DIRECTIVE 2012/18/EU) not subject to
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 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.

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.

H336 May cause drowsiness or dizziness.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

Specific target organ toxicity (repeated exposure)

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

Date of previous version: 22.04.2021

Version number of previous version: 1.00

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

(Contd. on page 10)

GB

**Safety data sheet
according to UK REACH**

Printing date 18.09.2024

Version: 2.00 (replaces version 1.00)

Revision: 19.07.2022

Trade name: SONAX Window De-Icer

Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
*** Data compared to the previous version altered.**

(Contd. of page 9)

GB