

Printing date 05.01.2016 Version: 3 Revision: 01.10.2015

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

1.1 Product identifier

Trade name: SONAX Antifreeze & Clear View "ready to us -20°C"

Article number: 332141, 332341, 332400, 332441, 332500, 332541, 332800

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 **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

1.4 Emergency telephone number: Emergency Phone Munich Tel.: +49 (0)89 19240

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.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

R10: Flammable.

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

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: Not applicable. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Aqueous formulation of alcohol, glycol and tensides.

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

anionic surfactants < 5%
perfumes

Additional information: For the wording of the listed risk 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

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)

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

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.

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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.

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.

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

CAS: 64-1	17-5 oth	nanol	
<u> </u>		in) Long-term value: 1920 mg/m³, 1000 ppm	
CAS: 107	-21-1 e	thanediol	
WEL (Great Britain)		in) Short-term value: 104** mg/m³, 40** ppm	
		Long-term value: 10* 52** mg/m³, 20** ppm	
		Sk *particulate **vapour	
IOELV (EU)		Short-term value: 104 mg/m³, 40 ppm	
		Long-term value: 52 mg/m³, 20 ppm	
		Skin	
DNELs			
CAS: 64-1	17-5 eth	nanol	
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/m³ (consumer) (acute short-tem exposure - local effects)	
		114 mg/m³ (consumer) (long-term exposure - systemic effects)	
		1900 mg/m³ (worker) (acute short-tem exposure - local effects)	
		950 mg/m³ (worker) (long-term exposure - systemic effects)	
CAS: 107	-21-1 e	thanediol	
Dermal	DNEL	53 mg/kg bw/day (consumer) (long term (chronic) / systemic)	
		106 mg/kg bw/day (worker) (long term (chronic) / systemic)	

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(Contd. of page 3) Inhalative DNEL 7 mg/m³ (consumer) (long term (chronic) / local) 35 mg/m³ (worker) (long term (chronic) / local) **PNECs** CAS: 64-17-5 ethanol PNEC 3.6 mg/kg (sediment (fresh water)) 2.9 mg/kg (sediment (sea water)) 0.63 mg/kg (soil) 0.96 mg/l (water (fresh water)) 0.79 mg/l (water (sea water)) CAS: 107-21-1 ethanediol PNEC 199.5 mg/l (STP) 1.53 mg/kg (gro) 20.9 mg/kg (sediment (fresh water)) 10 mg/l (water (intermittent release)) 10 mg/l (water (fresh water)) 1 mg/l (water (sea water))

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.

Personal protective equipment:

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

Respiratory protection:

General Information

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace. **Protection of hands:** Not required in normal cases **Eye protection:** Not required in normal cases

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

Appearance: Form: Fluid Colour: Blue Odour: Characteristic Odour threshold: Not determined. pH-value: 6.0 - 7.0Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: 78 - 200 °C Flash point: 28 °C (EN ISO 1523) Flammability (solid, gaseous): Not applicable.

Ignition temperature:

Decomposition temperature:Not determined.Self-igniting:Not determined.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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Explosion limits:

Lower: Explosion limits components:

ethanol:

3,5Vol%

Upper: Explosion limits components:

ethanol:

15Vol.%

Vapour pressure:Not determined.Density at 20 °C:0,96 - 0,97 g/cm³Relative densityNot determined.Vapour densityNot determined.Evaporation rateNot determined.

Solubility in / Miscibility with

water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Flow time at 20 °C 10 - 15 s (DIN EN ISO 2431/4mm)

Dynamic: Not determined. **Kinematic:** Not determined.

9.2 Other information No further relevant information available.

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

Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

I D/I C50 values relevant for classification:

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 toxicological effects There are no toxicological findings on this mixture. **Acute toxicity** Based on available data, the classification criteria are not met.

ED/LC30 values relevant for classification.					
CAS: 64-17-5 ethanol					
Oral	LD50	10470 mg/kg (rat) (OECD-Prüfrichtlinie 401 Literaturdaten)			
Inhalativ	e LC50/4h	116.9 mg/l (rat) (OECD-Prüfrichlinie 403 Literaturdaten)			
CAS: 107-21-1 ethanediol					
Oral	LD50	7712 mg/kg (rat)			
Dermal	LD50	>3500 mg/kg (mouse)			
Inhalativ	e LC50 / 6h	>2.5 mg/l (rat)			

Primary irritant effect:

Skin corrosion/irritation

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

Serious eye damage/irritation

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

Respiratory or skin sensitisation

On the basis of the available data, the classification criteria are not complied with (Conventional Method).

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CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

None of the ingredients are known to have effects which are carcinogenic, mutagenic or harmful to 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 Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

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

Aquatic toxicity:				
CAS: 64-17-5 ethanol				
EC50 / 48h	5012 mg/l (Ceriodaphnia Dubia)			
ErC 50 72h	275 mg/l (Chlorella vulgaris) (OECD-Prüfrichtlinie 201)			
LC 50 / 96 h	14200 mg/l (Pimephales promelas)			
NOEC / 9 d	9.6 mg/l (Daphnia magna)			
CAS: 107-21-1 ethanediol				
EC20	>1995 mg/l (activated sludge)			
EC50 / 48h	>100 mg/l (Daphnia magna)			
EC50 / 96 h	6500 - 13000 mg/l (Pseudokirchneriella subcapitata)			
LC 50 / 96 h	72860 mg/l (Pimephales promelas)			

12.2 Persistence and degradability

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

CAS: 107-21-1 ethanediol					
Biodegradiation	90-100 % (-) (OECD 301A)				

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.

Additional ecological information:

General notes:

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

European waste catalogue

20 01 29* detergents containing dangerous substances

Uncleaned packaging:

15 01 10*: packaging containing residues of or contaminated by dangerous substances

Recommendation:

Packaging may be reused or recycled after cleaning.

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15 01 02: plastic packaging

Recommended cleansing agents: Water

SECTION 14: Transport information

14.1 UN-Number ADR, IMDG, IATA

UN1987

14.2 UN proper shipping name

ADR 1987 ALCOHOLS, N.O.S. (ETHANOL, ETHYL METHYL KETONE)
IMDG, IATA ALCOHOLS, N.O.S. (ETHANOL, ETHYL METHYL KETONE)

14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class 3 Flammable liquids.

Label 3

14.4 Packing group

ADR, IMDG, IATA ///

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Flammable liquids.

Transport/Additional information:

ADR

Limited quantities (LQ)5LTransport category3Tunnel restriction codeD/E

UN 1987, ALCOHOLS, N.O.S. (ETHANOL, ETHYL METHYL KETONE), 3,

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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.

R11 Highly flammable.

R22 Harmful if swallowed.

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Abbreviations and acronyms:

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = letal Conentration EC50 = half maximal effective conentraion

log POW = Octanol / water partition coefficient
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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

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, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

* Data compared to the previous version altered.