

# Safety data sheet

according to 1907/2006/EC, Article 31 Version: 5.00 (replaces version 4.01)

Revision: 19.09.2022

1	.1 Product identifier
7	rade name: SONAX RADIATOR SEALANT
0 <b>U 1 A</b> R C P	Article number: 14421410, 04429000-050 IFI: K7HV-EU17-GXA7-6CRD .2 Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the mixture Radiator Sealant Consumer uses: Private households / general public / consumers Professional uses Ises advised against There is currently no information available on this.
N S N D	<i>.3 Details of the supplier of the safety data sheet</i> <i>Janufacturer/Supplier:</i> SONAX GmbH Jünchener Straße 75 9-86633 Neuburg (Donau) Fel.: ++49 (0)8431/53-0
PEPUA5T	Further information obtainable from: Product safety -mail: erp@sonax.de Phone: + +49 (0) 8431 53 217 Inited Kingdom: Inglo American Oil Company Ltd Inglo American Oil Company Ltd B Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT Felephone: (+44) 01929 551557 Fmail: info@aaoil.co.uk
E U N	<b>.4 Emergency telephone number:</b> European Union: +49 (0) 89 19240 (Poison Centre Munich) Inited 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.
 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



Signal word Warning

Hazard-determining components of labelling: ethanediol morpholine 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)

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### 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/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: Binding agent dispersion with organic pigments

1 55 1	5 7 5	
Dangerous components:		
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-xxxx	ethanediol § STOT RE 2, H373;    (1) Acute Tox. 4, H302	10-<20%
CAS: 110-91-8 EINECS: 203-815-1 Reg.nr.: 01-2119496057-30-xxxx	morpholine	0.1-<1%
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: 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: Foam Carbon dioxide Fire-extinguishing powder Water haze 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 (CO2)

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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

Cool endangered receptacles with water spray.

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.

Inform respective authorities in case of seepage into water course or sewage system.

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 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.

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.

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 lin CAS: 107-21-1 etha	mit values that require monitoring at the workplace: anediol	
WEL (Great Britain)	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	
OEL (Ireland)	Short-term value: 40 mg/m³, 104 ppm Long-term value: 52 mg/m³, 20 ppm Sk, IOELV	

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CAS: 110-91-8 ı	norpholine				
WEL (Great Brita	ain) Short-term value: 72 mg/m³, 20 ppm Long-term value: 36 mg/m³, 10 ppm				
IOELV (EU)	Sk Short-term value: 72 mg/m³, 20 ppm Long-term value: 36 mg/m³, 10 ppm				
OEL (Ireland)	Short-term value: 72 mg/m³, 20 ppm Long-term value: 36 mg/m³, 10 ppm Sk, IOELV				
	ain): EH40/2020				
DNELs					
CAS: 107-21-1 e					
Dermal DNEL	. 53 mg/kg bw/day (consumer) (long term (chronic) / systemic)				
	106 mg/kg bw/day (worker) (long term (chronic) / systemic)				
Inhalative DNEL					
	35 mg/m <sup>3</sup> (worker) (long term (chronic) / local)				
PNECs					
CAS: 107-21-1 e					
PNEC 199.5 mg					
	water (intermittent release))				
	water (fresh water))				
	ater (sea water))				
PNEC 1.53 mg/					
	(sediment (fresh water)) (dry weight)				
3.7 mg/k	g (sediment (sea water)) (dry weight)				
Additional infor 8.2 Exposure co	mation: The lists valid during the making were used as basis.				
Ensure good ver sufficient to keep be worn. Individual protect General protect The usual preca Keep away from Wash hands bef Respiratory pro If the occupation The following bro Respiratory filter Identification col [DIN EN 14387] Hand protection Material of glov Nitrile rubber, Nu	al exposure limit is exceeded: eathing protection is recommended: for organic gases and vapours (Type A) our: Brown a Protective gloves es BR hickness of the material: ≥ 0.45 mm				
	nended during refilling GB				

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SECTION 9: Physical and chemical prope	erties
9.1 Information on basic physical and chemical pi	operties
General Information	
Physical state	Fluid
Colour:	Green
Odour:	Citrus
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	100 - 198 °C
Flammability	Combustible liquid.
Lower and upper explosion limit	
Lower:	3.2 Vol %
Upper:	28 Vol %
Flash point:	> 111 °C (ISO 3679)
Decomposition temperature:	Not determined.
pH at 20 °C	8.5-10.5 (DIN 19268)
Viscosity:	
Kinematic viscosity at 40 °C	<20.5 mm²/s
Solubility	
water:	Easily soluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	4 04 4 00 m/cm3 (DIN 54757)
Density at 20 °C:	1.01-1.02 g/cm³ (DIN 51757) Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and	
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Not determined.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classe	S
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
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

Keep ignition sources away - Do not smoke.

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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.

	,	on available data, the classification criteria are not met.	
LD/LC50 values relevant for classification:			
CAS: 107-21-1 ethanediol			
Dral	LD50	7,712 mg/kg (rat)	
Dermal	LD50	>3,500 mg/kg (mouse)	
nhalative	LC50 / 6 h	>2.5 mg/l (rat)	
AS: 110	-91-8 morpl	holine	
ral	LD50	1,900 mg/kg (rat)	
ermal	LD50	500 mg/kg (rabbit)	
halative	ATE	0.5 mg/l (aerosol)	
	LC50 / 4h	8,000 ppm (rat) (gas)	
	LC50 / 4h	8 mg/l (rat) (vapour)	
kin corr	osion/irritat	tion Based on available data, the classification criteria are not met.	
erious e	ye damage	/irritation Based on available data, the classification criteria are not met.	
espirato	ory or skin s	sensitisation Based on available data, the classification criteria are not met.	
erm cell	mutagenic	ity Based on available data, the classification criteria are not met.	
arcinog	enicity Base	ed on available data, the classification criteria are not met.	
eproduc	tive toxicit	<b>y</b> Based on available data, the classification criteria are not met.	
TOT-sin	gle exposu	<b>re</b> Based on available data, the classification criteria are not met.	
	eated expo	sure the kidneys through prolonged or repeated exposure. Route of exposure: Ora	
		ased on available data, the classification criteria are not met.	

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.

None of the ingredients is listed.

# SECTION 12: Ecological information

12.1 Toxicity

mg/l (Pimephales promelas) mg/l (activated sludge)	
ma/l (activated aludae)	
ווטיו (מטווימובט גווטטב)	
g/l (Daphnia magna)	
3,000 mg/l (Pseudokirchneriella subcapitata)	
g/l (Ceriodaphnia Dubia) (EPA 600/4-89/001)	
mg/l (Pimephales promelas) (EPA 600/4-89/001)	
holine	
1 (Oncorhynchus mykiss)	
(Daphnia magna)	
(Desmodesmus subspicatus)	
(Desmodesmus subspicatus)	
1: m ) r pl g/ /	ng/l (Daphnia magna) 13,000 mg/l (Pseudokirchneriella subcapitata) mg/l (Ceriodaphnia Dubia) (EPA 600/4-89/001) 0 mg/l (Pimephales promelas) (EPA 600/4-89/001) <b>pholine</b> g/l (Oncorhynchus mykiss) /l (Daphnia magna) /l (Desmodesmus subspicatus) /l (Desmodesmus subspicatus)



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12.2 Pers	sistence and degradability			
CAS: 110	D-91-8 morpholine			
Biodegra	dation 93 % (OECD 301E / 25d)			
12.3 Bioa	accumulative potential			
CAS: 107	7-21-1 ethanediol			
log POW	1.36			
CAS: 110-91-8 morpholine				
BCF	<2.8			
log POW	≤2.55			
	<i>ility in soil</i> No further relevant information available. ults of PBT and vPvB assessment			
According classified <b>vPvB:</b>	g to information provided in the supply chain, the mix conatins less than 0.1% of any substances as PBT			
classified	g to information provided in the supply chain, the mix conatins less than 0.1% of any substances as vPvB l <b>ocrine disrupting properties</b>			
	g to the current state of scientific knowledge, there is no data for the product regarding endocrine			

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

disrupting properties with effects on the environment.

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

07 06 01\* aqueous washing liquids and mother liquors

15 01 02 plastic packaging

## Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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.	
14.7 Maritime transport in bulk according instruments	to IMO Not applicable.	

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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) 21.00 %

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

#### 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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

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

#### Classification according to Regulation (EC) No 1272/2008

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 \* Data compared to the previous version altered.

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: 4.01 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 = letal 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. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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