

Printing date 17.07.2018

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

Version: 1.00

Revision: 04.01.2017

1.1 Prod	luct identifier
Trade na	ame: SONAX Industrial & Assembly Cleaner
1.2 Rele Sector of SU21 (SU22 F Product Application	number: 04843000 vant identified uses of the substance or mixture and uses advised against of Use Consumer uses: Private households / general public / consumers Professional uses: Public domain (administration, education, entertainment, services, craftsmen) category PC35 Washing and cleaning products (including solvent based products) tion of the substance / the mixture g agent/ Cleaner
Manufac SONAX Müncher D-86633	ils of the supplier of the safety data sheet cturer/Supplier: GmbH ner Straße 75 Neuburg (Donau) 19 (0)8431/53-0
Further Product E-mail: e	information obtainable from:
1.4 Eme	rgency telephone number: Emergency Phone Munich Tel.: +49 (0)89 19240

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Extremely flammable aerosol. Pressurised container: May burst if heated.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Toxic to aquatic life with long lasting effects.

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



Signal word Danger

Hazard-determining components of labelling: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane propan-2-ol Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H315 Causes skin irritation. Causes serious eye irritation. H319 May cause drowsiness or dizziness. H336 H411 Toxic to aquatic life with long lasting effects. 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. P211 Do not spray on an open flame or other ignition source.

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P251	Do not pierce or burn, even after use.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/eye protection.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 $C/122 F$.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional info	ormation:
Buildup of expl	osive mixtures possible without sufficient ventilation.
2.3 Other haza	1
Results of PB	T and vPvB assessment
PBT: Not appli	cable
vPvB: Not app	

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Preparation of propellent and solvents

Dangerous components:		
EC No 921-024-6 Reg.nr.: 01-2119475514-35-xxxx	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	50 - <75%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol	15 - <20%
CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119463273-41-xxxx	cyclohexane Flam. Liq. 2, H225; S Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	5 - <10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide	3 - <5%
CAS: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44-xxxx	n-hexane Flam. Liq. 2, H225; Sepr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	1 - <3%
Regulation (EC) No 648/2004 or	detergents / Labelling for contents	
aliphatic hydrocarbons		<i>≥</i> 30%

Additional information:

Any entry in the EC-column that begins with the number "9" is a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance. See Section 15 for additional CAS number information for the substance.

For the wording of the listed hazard phrases refer to section 16.

Hydrocarbon mixture:

Benzene content < 0.1%

n-Hexane is a part of the hydrocarbon mixture.

Cyclohexane is a part of the hydrocarbon mixture.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take affected persons out of danger area and lay down. Remove soiled clothing After inhalation: Supply fresh air.

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(Contd. of page 2) In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, call medical assistance immediately . After skin contact: Wash the areas of skin affected with water and a mild detergent. If symptoms persist consult doctor. After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing: Do not induce vomiting; call for medical help immediately. 4.2 Most important symptoms and effects, both acute and delayed Headache Dizziness Nausea Drowsiness Skin irritation 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: 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 Can form explosive gas-air mixtures. In case of fire, the following can be released: Carbon monoxide (CO) Carbon dioxide (CO2) 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 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
Keep away from ignition sources.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
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 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.

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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.	
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. Highly volatile, flammable constituents are released during processing. Protect against electrostatic charges.	
 7.2 Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: Provide solvent resistant, sealed floor. Observe official regulations on storing packagings with pressurised containers. Information about storage in one common storage facility: Store away from foodstuffs. Further information about storage conditions: Store receptacle in a well ventilated area. Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting. 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

CAS: 67-6	63-0 pro	opan-2-ol	
WEL (Grea	at Brita	in) Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm	
CAS: 110-	-82-7 cj	yclohexane	
WEL (Grea	at Brita	in) Short-term value: 1050 mg/m³, 300 ppm Long-term value: 350 mg/m³, 100 ppm	
IOELV (EL	J)	Long-term value: 700 mg/m³, 200 ppm	
CAS: 124	-38-9 ca	arbon dioxide	
WEL (Grea	at Brital	in) Short-term value: 27400 mg/m³, 15000 ppm Long-term value: 9150 mg/m³, 5000 ppm	
IOELV (El	J)	Long-term value: 9000 mg/m³, 5000 ppm	
CAS: 110	-54-3 n	hexane	
WEL (Gre	at Brita	in) Long-term value: 72 mg/m³, 20 ppm	
IOELV (El	J)	Long-term value: 72 mg/m ³ , 20 ppm	
Regulator	ry infor	mation WEL (Great Britain): EH40/2011	
DNELs			
Hydrocarl	bons, C	C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Oral	DNEL	699 mg/kg bw/day (consumer) (chronic exposition / systemic effects)	
Dermal	DNEL	699 mg/kg bw/day (consumer) (chronic exposition / systemi effects)	
		773 mg/kg bw/day (worker) (chronic exposition / systemic effects)	
Inhalative	DNEL	608 mg/m ³ (consumer) (chronic exposition / systemic effects)	
		2035 mg/m ³ (worker) (chronic exposition / systemic effects)	



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	propan-	(Contd. of page 2-01
יוט ו		g/kg (consumer) (chornic effects (1d))
mal DN		ng/kg (consumer) (chronic effects (1d))
mai Dh		
		ng/kg (worker) (chronic effects (1d))
alalive DN		g/m³ (consumer) (chronic effects)
	500	ng/m³ (worker) (chronic effects)
ECs		
S: 67-63-0		
	• • •	radic release)
	ng/l (STF	
140.9	mg/l (wai	er (fresh water))
		er (sea water))
EC 28 mg	/kg (gro)	
552 m	g/kg (sec	iment)
worn. sonal pro	tective e	
neral proto a usual pre- p away fro- sh hands l spiratory fi e occupat following spiratory fi ntification of N EN 1438 tection of terial of gi	ective cautic om foc before brotec ional e breati ter for colour 7] f hanc	e an onar odst bre ctio expo hing r org r: B

SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and chemical properties General Information Appearance:		
Appearance: Form: Colour:	Aerosol	
Odour: Odour: Odour threshold:	Colourless Characteristic Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/freezing point:	Undetermined.	
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Initial boiling point and boiling range	: 60 - 120 °C (Active ingredient data)
Flash point:	< -5 $^{\circ}$ C (Active ingredient data)
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Explosion limits: Lower: Upper:	2 Vol% (propan-2-ol data) Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n- hexane: 0,6 Vol.% 12 Vol% (propan-2-ol data) 8,0 Vol.% (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane)
Vapour pressure:	Not determined.
Density at 20 °C: Relative density Vapour density Evaporation rate	0.72 - 0.74 g/cm ³ (Active ingredient data) Not determined. Not determined. Not applicable.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity: Flow time at 20 °C	10 - 15 s (DIN EN ISO 2431/4mm) (Active ingredient data)
Kinematic: 9.2 Other information	< 20.5 mm²/s (Daten Wirkstoff) 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 Develops readily flammable gases/fumes.

10.4 Conditions to avoid

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

An increase in pressure may lead to bursting.

Keep ignition sources away - Do not smoke.

See Section 7 for information on safe handling.

10.5 Incompatible materials:

strong oxidizing agents

strong acids

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.

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	values relev	(Contd. of pa
		7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
	LC50 / 4h	>20 mg/l (rat) (OECD 403)
	63-0 propan	
Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	13900 mg/kg (rabbit)
		>25 mg/l (rat) (OECD 403)
	-82-7 cyclo	
Oral	LD50	>5000 mg/kg (rabbit)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50 / 4h	>32880 mg/m ³ (rat)
CAS: 110-	-54-3 n-hex	ane
Oral	LD50	3200 mg/kg (rat)
Dermal	LD50	3350 mg/kg (rabbit)
Inhalative	LC50/4d	172 mg/l (rat)
Primary ii	ritant effec	:t:
	osion/irrita kin irritation.	tion
	ye damage erious eye ir	
		sensitisation vailable data, the classification criteria are not complied with (Conventional Method).
Contains r On the bas Germ cell Carcinoge	n-hexane! sis of the av mutagenic enicity Base	ogenity, mutagenicity and toxicity for reproduction) vailable data, the classification criteria are not complied with (Conventional Method). Sity Based on available data, the classification criteria are not met. ed on available data, the classification criteria are not met. y Based on available data, the classification criteria are not met.
	gle exposu e drowsines	r e s or dizziness.
STOT-rep	eated expo	sure Based on available data, the classification criteria are not met.
		ased on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Product is considered to be harmful to aquatic organisms. May have long-term harmful effects in aquatic environments.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
LL50 / 96h	11.4 mg/l (Oncorhynchus mykiss) (OECD 203)	
EL50 / 48h	3 mg/l (Daphnia magna) (OECD 202)	
EL50 / 72h	30 mg/l (Pseudokirchneriella subcapitata) (OECD 201)	
LOEC	0.32 mg/l (Daphnia magna) (21d)	
NOELR 72 h	3 mg/l (Pseudokirchneriella subcapitata)	
NOEC / 21 a	0.17 mg/l (Daphnia magna)	
CAS: 67-63-	0 propan-2-ol	
LC50 / 96h	9640 mg/l (Pimephales promelas)	
LC50 / 24h	9714 mg/l (daphnia)	
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EC50	>100 mg/l (bacteria)
	>100 mg/l (algae)
	-7 cyclohexane
	4.53 mg/l (Pimephales promelas)
	2.4 mg/l (Daphnia magna)
EC50 / 72h	3.4 mg/l (Pseudokirchneriella subcapitata)
CAS: 110-54	-3 n-hexane
	12.51 mg/l (Oncorhynchus mykiss)
EL50 / 48h	21.85 mg/l (Daphnia magna)
	ence and degradability
-	ns, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane
	ion 81 % (28d)
	0 propan-2-ol
Biodegradiati	
CAS: 110-54	
Biodegradiati	ion 83 % (10d (ECHA))
12.3 Bioaccu	Imulative potential
	-7 cyclohexane
log Kow 3.44	1 log Kow (pH: 7, 25 ℃)
CAS: 110-54	-3 n-hexane
log Kow 4 lo	g Kow (pH: 7, 20 °C)
12.4 Mobility Hydrocarbon Highly volatile Additional e General note 12.5 Results PBT: Not ap vPvB: Not ap	r in soil s, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane: e, will partition rapidly to air. cological information: es: The product may not be released into the environment without control. of PBT and vPvB assessment plicable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dangerous waste in accordance with the Directive on the List of Waste Materials **Recommendation** Waste must be disposed of while observing the local, official regulations. **European waste catalogue** Disposal / product + Disposal / contaminated packaging 15 01 10* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN-Number ADR, IMDG, IATA	UN1950	
14.2 UN proper shipping n	ame	
ADR	1950 AEROSOLS	
IMDG	AEROSOLS	
ΙΑΤΑ	AEROSOLS, flammable	
ΙΑΤΑ	AEROSOLS, flammable	(C
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14.3 Transport hazard class(es)	
ADR		
Class	2 5F Gases.	
Label	2.1	
IMDG, IATA		
Class	2.1	
Label	2.1	
<i>14.4 Packing group ADR, IMDG, IATA</i>	Void	
14.5 Environmental hazards:		
Marine pollutant:	Yes	
	absent due to package size =<5l	
14.6 Special precautions for		
	Warning: Gases.	
Transport/Additional informa	ition:	
ADR		
Limited quantities (LQ)	1L	
Transport category	2	
Tunnel restriction code	D	
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture The following substance(s) in this product is (are) identified by CAS number either in countries not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane: CAS 64742-49-0

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.

- H281 Contains refrigerated gas; may cause cryogenic burns or injury.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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H361f Suspected of damaging fertility.	
H373 May cause damage to organs through prolonged or repeated exposure.	
H400 Very toxic to aquatic life.	
H410 Very toxic to aquatic life with long lasting effects.	
H411 Toxic to aquatic life with long lasting effects.	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concern	ing 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 européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Inter	national Carriage
of Dangerous Goods by Road)	lational ournage
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	
Aerosol 1: Aerosols – Category 1	
Press. Gas R: Gases under pressure – Refrigerated liguefied gas	
Flam. Lig. 2: Flammable liguids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
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