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

Printing date 28.10.2020 *Version: 1.02* *Revision: 11.12.2018*

*

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

1.1 Product identifier

Trade name: SONAX BIKE Spray Wax

Article number:
08332000
UFI: QYR0-D0C4-2009-DN58
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 PC31 Polishes and wax blends
Application of the substance / the mixture Bicycle Care

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

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Aquatic Chronic 2	H411	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

GHS02 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:
C6-10 ALKANE/CYCLOALKANE
Hazard statements
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
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.
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.

(Contd. on page 2)

(Contd. of page 1)

P302+P352 IF ON SKIN: Wash with plenty of water.
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.

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: Formulation consisting of pressurised gas, wax and mixture of solvents.

Dangerous components:		
EC No 927-241-2 Reg.nr.: 01-2119471843-32-xxxx	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Alternative CAS number: 64742-48-9 Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	50 - <75%
EC No 921-024-6 Reg.nr.: 01-2119475514-35-xxxx	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Alternative CAS number: 64742-49-0 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	25 - <50%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide Press. Gas (Ref. Liq.), H281	3 - <5%
CAS: 110-82-7 EINECS: 203-806-2 Reg.nr.: 01-2119463273-41-xxxx	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	1 - <3%
CAS: 93685-81-5 EINECS: 297-629-8	HYDROCARBONS, C4, 1,3-BUTADIENE-FREE, POLYMD., TRIISOBUTYLENE FRACTION, HYDROGENATED Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	1 - <3%
CAS: 110-54-3 EINECS: 203-777-6 Reg.nr.: 01-2119480412-44-xxxx	n-hexane Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5 %	1 - <3%

Additional information:
Hydrocarbon mixture:
Benzene content < 0.1%
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:
Take affected persons out of danger area and lay down.
Remove soiled clothing
After inhalation:
Supply fresh air.
In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, call medical assistance immediately .
In case of unconsciousness place patient stably in side position for transportation.
After skin contact:
Wash the areas of skin affected with water and a mild detergent.
If symptoms persist consult doctor.

(Contd. on page 3)

(Contd. of page 2)

After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, 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
Skin irritation
Headache
Dizziness
Drowsiness
Nausea

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
Fire-extinguishing powder
Carbon dioxide
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 and carbon dioxide
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
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.
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.*

(Contd. on page 4)

(Contd. of page 3)

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.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Fumes can combine with air to form an explosive mixture.

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:
Protect from heat and direct sunlight.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Store receptacle in a well ventilated area.
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: 124-38-9 carbon dioxide	
WEL (Great Britain)	*Short-term value: 27400 mg/m³, 15000 ppm* *Long-term value: 9150 mg/m³, 5000 ppm*
IOELV (EU)	*Long-term value: 9000 mg/m³, 5000 ppm*
CAS: 110-82-7 cyclohexane	
WEL (Great Britain)	*Short-term value: 1050 mg/m³, 300 ppm* *Long-term value: 350 mg/m³, 100 ppm*
IOELV (EU)	*Long-term value: 700 mg/m³, 200 ppm*
CAS: 110-54-3 n-hexane	
WEL (Great Britain)	*Long-term value: 72 mg/m³, 20 ppm*
IOELV (EU)	*Long-term value: 72 mg/m³, 20 ppm*

Regulatory information *WEL (Great Britain): EH40/2011*

DNELs		
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		
Oral	*DNEL*	*300 mg/kg bw/day (consumer) (ChronicExposure, SystemicEffects)*
Dermal	*DNEL*	*300 mg/kg bw/day (consumer) (ChronicExposure, SystemiEffects)*
		300 mg/kg bw/day (worker) (ChronicExposure, SystemicEffects)
Inhalative	*DNEL*	*900 mg/m³ (consumer) (ChronicExposure, SystemicEffects)*
		1500 mg/m³ (worker) (ChronicExposure, SystemicEffects)
Hydrocarbons, 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/m³ (consumer) (chronic exposition / systemic effects)*
		2035 mg/m³ (worker) (chronic exposition / systemic effects)

Additional information: *The lists valid during the making were used as basis.*

(Contd. on page 5)

(Contd. of page 4)

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:
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:
If the occupational exposure limit is exceeded:
The following breathing protection is recommended:
Respiratory filter for organic gases and vapours (Type A)
Identification colour: Brown
[DIN EN 14387]
Protection of hands:
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Material of gloves
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 mm
[EN 374]
Penetration time of glove material *Value for the permeation: Level 6 (≥480min)*
Eye protection: *Not required in normal cases*

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information

Appearance:	
Form:	*Aerosol*
Colour:	*White*
Odour:	*Solvent-like*
Odour threshold:	*Not determined.*
pH-value:	*Not applicable.*
Change in condition	
Melting point/freezing point:	*Undetermined.*
Initial boiling point and boiling range:	*60 - 162 °C* *(Active ingredient data)*
Flash point:	*< -5 °C* *(Active ingredient data)*
Flammability (solid, gas):	*Not applicable.*
Decomposition temperature:	*Not determined.*
Auto-ignition temperature:	*Not determined.*
Explosive properties:	*Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.*
Explosion limits:	
Lower:	*0.6 Vol.% (Main ingredient data)*
Upper:	*7.0 Vol.% (Main ingredient data)*
Vapour pressure:	*Not determined.*
Density at 20 °C:	*0.74 - 0.75 g/cm³* *(Active ingredient data)*
Relative density	*Not determined.*
Vapour density	*Not determined.*

(Contd. on page 6)

(Contd. of page 5)

Evaporation rate	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)
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 Forms explosive gas mixture with air.
10.4 Conditions to avoid
An increase in pressure may lead to bursting.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
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 toxicological effects There are no toxicological findings on this mixture.
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		
Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4d	>4951 mg/l (rat) (OECD 403)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	LD50	>5840 mg/kg (rat) (OECD 401)
Dermal	LD50	>2920 mg/kg (rat) (OECD 402)
Inhalative	LC50/4d	25.2 mg/l (rat) (OECD 403)
CAS: 110-82-7 cyclohexane		
Oral	LD50	12000 mg/kg (rat)
Dermal	LD50	>18000 mg/kg (rabbit)
CAS: 93685-81-5 HYDROCARBONS, C4, 1,3-BUTADIENE-FREE, POLYMD., TRIISOBUTYLENE FRACTION, HYDROGENATED		
Oral	LD50	>5000 mg/kg (rat)
CAS: 110-54-3 n-hexane		
Oral	LD50	5000 mg/kg (mouse)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4d	172 mg/l (rat)

Primary irritant effect:

Skin corrosion/irritation
Causes skin irritation.

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.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Contains n-hexane!

(Contd. on page 7)

(Contd. of page 6)

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
May cause drowsiness or dizziness.

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

Aquatic toxicity:	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LL50 / 96h	*>10 - <30 mg/l (Oncorhynchus mykiss)*
EL50 / 48h	*>22 - <46 mg/l (Daphnia magna)*
EL50 / 72h	*>1000 mg/l (Pseudokirchneriella subcapitata)*
NOELR 72 h	*< 1 mg/l (Pseudokirchneriella subcapitata)*
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	*30-100 mg/l (Pseudokirchneriella subcapitata)*
LOEC	*0.32 mg/l (Daphnia magna)*
NOELR 72 h	*3 mg/l (Pseudokirchneriella subcapitata)*
NOEC / 21 d	*0.17 mg/l (Daphnia magna)*
CAS: 93685-81-5 HYDROCARBONS, C4, 1,3-BUTADIENE-FREE, POLYMD., TRIISOBUTYLENE FRACTION, HYDROGENATED	
EC50 / 48h	*>0.04 mg/l (Daphnia magna)*
IC50 / 72h	*>0.04 mg/l (algae)*

12.2 Persistence and degradability	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Biodegradiation	*89 % (28d)*
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Biodegradiation	*81 % (28d)*

12.3 Bioaccumulative potential	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
log POW	*3.4 - 5.2 log POW*
CAS: 110-54-3 n-hexane	
log POW	*3.9 log POW*

12.4 Mobility in soil
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:
Highly volatile, will partition rapidly to air.
Additional ecological information:
General notes: *The product may not be released into the environment without control.*
12.5 Results of PBT and vPvB assessment
PBT: *Not applicable.*
vPvB: *Not applicable.*
12.6 Other adverse effects *No further relevant information available.*

(Contd. on page 8)

(Contd. of page 7)

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Waste classified as hazardous according to Annex III to Directive 2008/98/EC.
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
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 name	
ADR	*1950 AEROSOLS*
IMDG	*AEROSOLS*
IATA	*AEROSOLS, flammable*
14.3 Transport hazard class(es)	
ADR	

Class	*2 5F Gases.*
Label	*2.1*
IMDG, IATA	

Class	*2.1*
Label	*2.1*
14.4 Packing group	
ADR, IMDG, IATA	*Void*
14.5 Environmental hazards:	
Marine pollutant:	*Yes* *absent due to package size =<5l*
14.6 Special precautions for user	*Warning: Gases.*
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	*Not applicable.*
Transport/Additional information:	
ADR	
Limited quantities (LQ)	*1L*
Transport category	*2*
Tunnel restriction code	*D*
UN "Model Regulation":	*UN 1950 AEROSOLS, 2.1*

(Contd. on page 9)

(Contd. of page 8)

*

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
European Directives:
EC/1907/2006 (REACh)
EC/1272/2008 (CLP)
EC/648/2004

National regulations:

Information about limitation of use:
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles 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.
H226 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.
H336 May cause drowsiness or dizziness.
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.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Classification according to Regulation (EC) No 1272/2008	
Aerosols	On basis of test data
Skin corrosion/irritation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:
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 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
IOELV = indicative occupational exposure limit values
Aerosol 1: Aerosols – Category 1
Press. Gas (Ref. Liq.): Gases under pressure – Refrigerated liquefied gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/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

(Contd. on page 10)

(Contd. of page 9)

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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

Version history and indication of changes: *Replaces version 1.01.*
**** Data compared to the previous version altered.***