

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

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

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

1.1 Product identifier

Trade name: **SONAX ChainCare**

Article number: 476100

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 PC24 Lubricants, greases, release products

Application of the substance / the mixture Lubricant

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.

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 Danger

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

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 and mineral oil with additives in petroleum distillate

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

Trade name: SONAX ChainCare

(Contd. of page 1)

Dangerous components:

EC No 926-141-6 Reg.nr.: 01-2119456620-43-xxxx	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics Alternative CAS number: 64742-47-8 ⚠ Asp. Tox. 1, H304	25 - <50%
CAS: 8042-47-5 EINECS: 232-455-8 Reg.nr.: 01-2119487078-27-xxxx	White mineral oil, petroleum ⚠ Asp. Tox. 1, H304	25 - <50%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	5 - <10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	5 - <10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	1 - <3%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119565113-46-xxxx	2,6-di-tert-butyl-p-cresol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1 - <1%

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

aliphatic hydrocarbons	≥30%
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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.

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.

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: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

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

For safety reasons unsuitable extinguishing agents: Water with full jet

(Contd. on page 3)

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

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

Trade name: SONAX ChainCare

(Contd. of page 2)

5.2 Special hazards arising from the substance or mixture*In case of fire, the following can be released:**Carbon monoxide (CO)**Sulphur dioxide (SO₂)**Nitrogen oxides (NO_x)***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.**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.**Protect from heat and direct sunlight.**Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.**Recommended storage temperature: 20 °C.*

(Contd. on page 4)

GB

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

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

Trade name: SONAX ChainCare

(Contd. of page 3)

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: 106-97-8 butane

WEL (Great Britain) Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1.3-diene)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

WEL (Great Britain) Long-term value: 10 mg/m³

DNELs

CAS: 8042-47-5 White mineral oil, petroleum

Oral	DNEL	40 mg/kg (consumer) (long-term exposure - systemic effects)
Dermal	DNEL	92 mg/kg bw/day (consumer) (long-term exposure - systemic effects) 220 mg/kg bw/day (worker) (long-term exposure - systemic effects)
Inhalative	DNEL	35 mg/m ³ (consumer) (long-term exposure - systemic effects) 160 mg/m ³ (worker) (long-term exposure - systemic effects)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Dermal	DNEL	5 mg/kg (VL) 8.3 mg/kg (worker)
Inhalative	DNEL	1.74 mg/m ³ (VL) 5.8 mg/m ³ (worker)

PNECs

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	PNEC	16.7 mg/kg food (human)
	PNEC	100 mg/l (sewage plant) 0.004 mg/l (sporadic release) 0.004 mg/l (freshwater (Süßwasser)) 1.29 mg/kg (sediment (fresh water)) 0.0004 mg/l (sediment (sea water)) 1.04 mg/kg (soil)

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:

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.

(Contd. on page 5)

GB

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

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

Trade name: SONAX ChainCare

(Contd. of page 4)

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 (≥ 480 min)

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:

brown-opaque

Odour:

Characteristic

Odour threshold:

Not determined.

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

data of the content without propellant

pH-value:

Not determined.

Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range:

180 - 270 °C

Flash point:

84 °C (DIN 51758)

Flammability (solid, gas):

Not applicable.

Decomposition temperature:

Not determined.

Auto-ignition temperature:

Product is not selfigniting.

Explosive properties:

Not determined.

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

Explosion limits:

Lower:

Explosion limits components:

0,6Vol% (Main ingredient data)

Upper:

Explosion limits components:

7,0Vol.% (Main ingredient data)

Vapour pressure:

Not determined.

Density at 20 °C:

0.83 - 0.84 g/cm³

Relative density

Not determined.

Vapour density

Not determined.

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 23 °C

30 - 35 s (DIN EN ISO 2431/3mm)

Dynamic:

Not determined.

Kinematic at 40 °C:

< 20.5 mm²/s (DIN 51562)

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 Develops readily flammable gases/fumes.

(Contd. on page 6)

GB

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

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

Trade name: SONAX ChainCare

(Contd. of page 5)

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, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/8h	>5000 mg/m³ (rat) (OECD 403)

CAS: 8042-47-5 White mineral oil, petroleum

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4h	>5000 mg/l (rat)

CAS: 106-97-8 butane

Inhalative	LC50/4h	658 mg/l (rat)
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CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	LD50	>5000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
Dermal	LD50	>5000 mg/kg (rat) (OECD-Prüfrichtlinie 402)

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).

Repeated dose toxicity
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	NOAEL	25 mg/kg (Ratte)
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CMR effects (carcinogenicity, mutagenicity and toxicity for 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

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

(Contd. on page 7)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

Trade name: SONAX ChainCare

(Contd. of page 6)

Aquatic toxicity:
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

ELO 48 h	1000 mg/l (Daphnia magna)
ELO 72 h	1000 mg/l (Pseudokirchneriella subcapitata)
LLO 96 h	1000 mg/l (Oncorhynchus mykiss)

CAS: 8042-47-5 White mineral oil, petroleum

EC50 / 48h	>100 mg/l (daphnia)
LC 50 / 96 h	>100 mg/l (fish)
NOEC/NOEL	≥100 mg/l (fish) (96h)
	≥100 mg/l (algae) (72h)
	≥100 mg/l (daphnia) (48h)

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

EC50 / 48h	>0.17 mg/l (Daphnia magna)
IC50 / 72h	>0.42 mg/l (Desmodesmus subspicatus)
LC 50 / 96 h	>0.57 mg/l (Danio rerio)
NOEC/NOEL	0.07 mg/l (Daphnia magna)

12.2 Persistence and degradability
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Biodegradation 69 % (28d)

CAS: 8042-47-5 White mineral oil, petroleum

Biodegradation >60 % (28d (OECD 301B))

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Biodegradation 30 % (MITI-Test II)
4.5 % (---) (OECD Richtlinie zur Untersuchung v. Chem.Nr 301C)

12.3 Bioaccumulative potential
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

log POW 5.1 log POW

12.4 Mobility in soil No further relevant information available.

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.

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 dangerous substances

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name
ADR

1950 AEROSOLS

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

Trade name: SONAX ChainCare

(Contd. of page 7)

IMDG
IATA

AEROSOLS
AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR



Class
Label

2 5F Gases.
2.1

IMDG, IATA



Class
Label

2.1
2.1

14.4 Packing group
ADR, IMDG, IATA

Void

14.5 Environmental hazards:
Marine pollutant:

No

14.6 Special precautions for user

see Sections 6-8
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":

UN1950, 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, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics: CAS 64742-47-8

European Directives:

EC/1907/2006 (REACH)

EC/1272/2008 (CLP)

EC/648/2004

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.

GB

(Contd. on page 9)

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

Printing date 29.10.2020

Version: 3.00

Revision: 28.06.2017

Trade name: SONAX ChainCare

(Contd. of page 8)

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

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Aerosols	On basis of test data
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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 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. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
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

* Data compared to the previous version altered.

GB