

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

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

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

1.1 Product identifier

Trade name: **SONAX Engine Starter**

Article number: 03121000

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)

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

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye 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:

diethyl ether

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

acetone

cyclohexane

Hazard statements

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

H315 Causes skin irritation.

H319 Causes serious eye 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.

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 1)

P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.
P305+P351+P338 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 information:

Buildup of explosive mixtures possible without sufficient ventilation.

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 solvents with additives

Dangerous components:

CAS: 60-29-7 EINECS: 200-467-2 Reg.nr.: 01-2119535785-29-xxxxx	diethyl ether ⚠ Flam. Liq. 1, H224; ⚠ Acute Tox. 4, H302; STOT SE 3, H336	20 - <25%
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	15 - <20%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	10 - <15%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	10 - <15%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10 - <15%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1, H220; Press. Gas (Comp.), H280	3 - <5%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide ⚠ Press. Gas (Ref. Liq.), H281	3 - <5%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-xxxx	1-Methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	1 - <3%
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: 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 %	< 1.00%

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.

(Contd. on page 3)

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

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 2)

*For the wording of the listed hazard phrases refer to section 16.***Hydrocarbon mixture:***Benzene content < 0.1%**Cyclohexane is a part of the hydrocarbon mixture.**n-Hexane 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.**In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, call medical assistance immediately.***After skin contact:***Immediately wash with water and soap and rinse thoroughly.**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**Drowsiness**Nausea**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***In case of fire, the following can be released:**Carbon monoxide (CO)**Carbon dioxide (CO₂)**Sulphur dioxide (SO₂)***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.*

(Contd. on page 4)

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

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 3)

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.

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 receptacle in a well ventilated area.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

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: 60-29-7 diethyl ether

WEL (Great Britain) Short-term value: 620 mg/m³, 200 ppm

Long-term value: 310 mg/m³, 100 ppm

IOELV (EU)

Short-term value: 616 mg/m³, 200 ppm

Long-term value: 308 mg/m³, 100 ppm

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: 67-64-1 acetone

WEL (Great Britain) Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

IOELV (EU)

Long-term value: 1210 mg/m³, 500 ppm

(Contd. on page 5)

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

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 4)

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: 107-98-2 1-Methoxy-2-propanol

WEL (Great Britain) Short-term value: 560 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
Sk

IOELV (EU) Short-term value: 568 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppm
Skin

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

Regulatory information WEL (Great Britain): EH40/2011

DNELs

CAS: 60-29-7 diethyl ether

Oral	DNEL	15.6 mg/kg (consumer) (longterm systematic effects)
Dermal	DNEL	15.6 mg/kg bw/day (consumer) (longterm systematic effects) 44 mg/kg bw/day (worker) (longterm systematic effects)
Inhalative	DNEL	54.5 mg/m ³ (consumer) (longterm systematic effects) 616 mg/m ³ (worker) (acute short-term systematic effects) 308 mg/m ³ (worker) (longterm systematic effects)

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 / systemic 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)

CAS: 107-98-2 1-Methoxy-2-propanol

Oral	DNEL	3.3 mg/kg (consumer) (long-term / systemic effects)
Dermal	DNEL	18.1 mg/kg (consumer) (long-term / systemic effects) 50.6 mg/kg (worker) (long-term / systemic effects)
Inhalative	DNEL	43.9 mg/m ³ (consumer) (long-term / systemic effects) 553.5 mg/m ³ (worker) (short-term / local effects) 369 mg/m ³ (worker) (long-term / systemic effects)

PNECs

CAS: 60-29-7 diethyl ether

PNEC	4.2 mg/l (sewage plant) (Assessment factor 10) 1.65 mg/l (water (intermittent release)) (Assessment Factor 100) 2 mg/l (water (fresh water)) (Assessment factor 50) 0.2 mg/l (water (sea water)) (Assessment factor 500)
PNEC	9.14 mg/kg (sediment (fresh water)) 0.914 mg/kg (sediment (sea water)) 0.66 mg/kg (soil)

CAS: 107-98-2 1-Methoxy-2-propanol

PNEC	100 mg/l (STP) 100 mg/l (water (intermittent release)) 10 mg/l (water (fresh water)) 1 mg/l (water (sea water))
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(Contd. on page 6)

GB

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

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 5)

PNEC	2.47 mg/kg (gro)
	41.6 mg/kg (sediment (fresh water))
	4.17 mg/kg (sediment (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:

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:

Ensure good ventilation/exhaustion at the workplace.

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 (≥ 480 min)

Eye protection:

Safety glasses

[EN 166]

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Aerosol
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not applicable.

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	30 - 185 °C (Active ingredient data)

Flash point: -40 °C (DIN 51755)
(Active ingredient data)

Flammability (solid, gas): Not applicable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Not determined.

Explosive properties: Not determined.
In use, may form flammable/explosive vapour-air mixture.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 6)

Explosion limits:

Lower:	1.7 Vol.% (Main ingredient data) 1.5 Vol.% (Propellant data)
Upper:	36.0 Vol.% (Main ingredient data) 10.9 Vol.% (Propellant 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.

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 - 12 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 Develops readily flammable gases/fumes.

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:
CAS: 60-29-7 diethyl ether

Oral	LD50	1215 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4d	97 mg/l (rat)
	LC 50/14d	2138 mg/kg (Poecilla reticulata)

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: 106-97-8 butane

Inhalative	LC50/4d	658 mg/l (rat)
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CAS: 67-64-1 acetone

Oral	LD50	4700-5800 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 7)

Inhalative	LC50/4d	76 mg/l (rat)
CAS: 107-98-2 1-Methoxy-2-propanol		
Oral	LD50	4016 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC0 / 6h	>7000 ppm (rat)
CAS: 110-82-7 cyclohexane		
Oral	LD50	12000 mg/kg (rat)
Dermal	LD50	>18000 mg/kg (rabbit)
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

Causes serious eye irritation.

Respiratory or skin sensitisation

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

Repeated dose toxicity
CAS: 60-29-7 diethyl ether

Oral	NOAEL	500 mg/kg (Ratte)
Inhalative	NOAEC	13.8 mg/m ³ (rat)

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

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:
CAS: 60-29-7 diethyl ether

LC50 / 96h	2560 mg/l (Pimephales promelas)
LC50 / 48h	2840 mg/l (Leuciscus idus)
EC50 / 72h	>100 mg/l (Desmodesmus subspicatus)
NOEC / 72 h	>100 mg/l (Desmodesmus subspicatus)

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)

(Contd. on page 9)

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

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 8)

CAS: 67-64-1 acetone

LC50 / 96h	5540 mg/l (Regenbogenforelle)
EC50 / 48h	8800 mg/l (Daphnia magna)

CAS: 107-98-2 1-Methoxy-2-propanol

LC50 / 96h	>6800 mg/l (Leuciscus idus) (DIN38412)
LC50 / 48h	23300 mg/l (Daphnia magna)
EC50	>1000 mg/l (Pseudokirchneriella subcapitata) (7d)
EC50/3h	>1000 mg/l (activated sludge) (OECD 209)

12.2 Persistence and degradability
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Biodegradation	81 % (28d)
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CAS: 107-98-2 1-Methoxy-2-propanol

Biodegradation	90 - 100 % (OECD 301E)
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12.3 Bioaccumulative potential
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

log POW	3.4 - 5.2 log POW
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CAS: 67-64-1 acetone

log POW	-0.24 log POW
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CAS: 107-98-2 1-Methoxy-2-propanol

log Kow	-0.43 log Kow (25°C)
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CAS: 110-54-3 n-hexane

log POW	3.9 log POW
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12.4 Mobility in soil

diethyl ether:

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 Not applicable.

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

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 dangerous substances
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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

(Contd. on page 10)

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

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 9)

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 see Sections 6-8
Warning: Gases.

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, 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

H220 Extremely flammable gas.

H224 Extremely flammable liquid and vapour.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H281 Contains refrigerated gas; may cause cryogenic burns or injury.

(Contd. on page 11)

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

Printing date 11.12.2019

Version: 4.01

Revision: 20.07.2017

Trade name: SONAX Engine Starter

(Contd. of page 10)

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye 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.

Classification according to Regulation (EC) No 1272/2008

Aerosols	On basis of test data
Skin corrosion/irritation Serious eye damage/eye 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:

vPvB: very persistent and very bioaccumulative
PBT: persistent, bioaccumulative, toxic
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 = Lethal 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
Press. Gas (Ref. Liq.): Gases under pressure – Refrigerated liquefied gas
Flam. Liq. 1: Flammable liquids – Category 1
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
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

* Data compared to the previous version altered.