Safety data sheet
according to UK REACH

Printing date 18.09.2024 Version: 6.00 (replaces version 5.00) Revision: 22.04.2021

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

1.1 Product identifier

Trade name: SONAX Engine Starter

Article number:
03121000
UFI: 83K3-30X1-X00M-T4MR
1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance / the mixture
Car care product
Consumer uses: Private households / general public / consumers
Professional uses
Uses advised against None

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
United Kingdom:
Anglo American Oil Company Ltd
58 Holton Road, Holton Heath Trading Park, Poole, Dorset, BH16 6LT
Telephone: (+44) 01929 551557
Email: info@aaoil.co.uk

1.4 Emergency telephone number:
European Union: +49 (0) 89 19240 (Poison Centre Munich)
United 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

Aerosol 1	H222 Extremely flammable aerosol.
	H229 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 GB CLP regulation.
Hazard pictograms

GHS02 GHS07 GHS09

Signal word Danger

Hazard-determining components of labelling:
diethyl ether
C6-7 Alkane/Cycloalkane
Hazard statements
H222 Extremely flammable aerosol.

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H229 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.
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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P405	Store locked up.
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:
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: 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, EUH019, EUH066	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 1A, H220; Press. Gas (Comp.), H280	10-<15%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane Flam. Gas 1A, 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, EUH066	10-<15%

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CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1A, 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: 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 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Irrit. 2, H315; STOT SE 3, H336	1-<3%
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: 110-54-3 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%

Additional information:
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

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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 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.
For non-emergency personnel Keep away from ignition sources.
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 section 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.
Observe local/state/federal regulations.
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.

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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
OEL (Ireland)	Short-term value: 616 mg/m³, 200 ppm Long-term value: 308 mg/m³, 100 ppm IOELV
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)
OEL (Ireland)	Short-term value: 1000 ppm
CAS: 74-98-6 propane	
OEL (Ireland)	Asphx
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
OEL (Ireland)	Long-term value: 1210 mg/m³, 500 ppm IOELV
CAS: 75-28-5 isobutane	
OEL (Ireland)	Short-term value: 1000 ppm
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
OEL (Ireland)	Long-term value: 9000 mg/m³, 5000 ppm IOELV
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
OEL (Ireland)	Long-term value: 700 mg/m³, 200 ppm IOELV
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
OEL (Ireland)	Short-term value: 568 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm IOELV
CAS: 110-54-3 n-hexane	
WEL (Great Britain)	Long-term value: 72 mg/m³, 20 ppm

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IOELV (EU)	Long-term value: 72 mg/m³, 20 ppm
OEL (Ireland)	Long-term value: 72 mg/m³, 20 ppm IOELV, Sk

Regulatory information
WEL (Great Britain): EH40/2020
IOELV (EU): (EU) 2019/1831
OEL (Ireland): 2020 CoP for the Safety, Health and Welfare at Work

DNELs		
CAS: 60-29-7 diethyl ether		
Dermal	DNEL	44 mg/kg (worker) (chronic systemic effect)
Inhalative	DNEL	308 mg/m³ (worker) (chronic systemic effect)
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)
		2,035 mg/m³ (worker) (chronic exposition / systemic effects)
CAS: 67-64-1 acetone		
Dermal	DNEL	186 mg/kg (worker) (chronic systemic effect)
Inhalative	DNEL	1,210 mg/m³ (worker) (chronic systemic effect)
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/m³ (consumer) (long-term / systemic effects)
		553.5 mg/m³ (worker) (short-term / local effects)
	DNEL	369 mg/m³ (worker) (long-term / systemic effects)

PNECs	
CAS: 60-29-7 diethyl ether	
PNEC	4.2 mg/l (sewage plant)
	2 mg/l (water (fresh water))
	0.2 mg/l (water (sea water))
PNEC	9.14 mg/kg (sediment (fresh water))
	0.914 mg/kg (sediment (sea water))
	0.66 mg/kg (soil)
CAS: 67-64-1 acetone	
PNEC	100 mg/l (STP)
	10.6 mg/l (water (fresh water))
	1.06 mg/l (water (sea water))
PNEC	30.4 mg/kg (sediment (fresh water))
	3.04 mg/kg (sediment (sea water))
	29.5 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))
PNEC	2.47 mg/kg (gro)
	41.6 mg/kg (sediment (fresh water))
	4.17 mg/kg (sediment (sea water))

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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.
Individual protection measures, such as 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]
Hand protection
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/face protection
Safety glasses
[EN 166]

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Fluid
Colour:	Colourless
Odour:	Solvent-like
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	30 - 185 °C (Active ingredient data)
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	
Lower:	1,7 Vol.% (Main ingredient data) 1,5 Vol.% (Propellant data)
Upper:	36 Vol.% (Main ingredient data) 10,9 Vol.% (Propellant data)
Flash point:	Not applicable, as aerosol.
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity at 40 °C	<20.5 mm²/s (Daten Wirkstoff)
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0.74 - 0.75 g/cm³ (Active ingredient data)

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Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Aerosol
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	In use, may form flammable/explosive vapour-air mixture.
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	>85% (percent by mass) flammable components, combustion energy >30 kJ/g Extremely flammable aerosol. Pressurised container: May burst if heated.
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 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 hazard classes as defined in Regulation (EC) No 1272/2008
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	1,220 mg/kg (rat) 14,300 mg/kg (rabbit)
	ATE	1,220 mg/kg

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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,920 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 / 4h	>20 mg/l (rat) (OECD 403)
CAS: 67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat) (OECD 401)
Dermal	LD 50	>15,800 mg/kg (rabbit)
Inhalative	LC50 / 4h	76 mg/m³ (rat)
CAS: 110-82-7 cyclohexane		
Oral	LD50	>5,000 mg/kg (rabbit)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	>32,880 mg/m³ (rat)
CAS: 107-98-2 1-Methoxy-2-propanol		
Oral	LD50	4,016 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC0 / 6h	>7,000 ppm (rat)
CAS: 110-54-3 n-hexane		
Oral	LD50	3,200 mg/kg (rat)
Dermal	LD50	3,350 mg/kg (rabbit)
Inhalative	LC50/4d	172 mg/l (rat)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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.

Additional toxicological information:

Repeated dose toxicity		
CAS: 60-29-7 diethyl ether		
Oral	LOAEL	2,000 mg/kg (rat)

Values relevant for classification:		
CAS: 60-29-7 diethyl ether		
Oral	NOAEL	500 mg/kg/day (rat)

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

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Aquatic toxicity:	
CAS: 60-29-7 diethyl ether	
EC50 / 21 d	>100 mg/l (Daphnia magna) (OECD 211)
EbC50 / 72 h	>100 mg/l (Desmodesmus subspicatus) (OECD 201)
ErC 50 / 72h	>100 mg/l (Desmodesmus subspicatus) (OECD 201)
LOEC / 21 d	>100 mg/l (Daphnia magna) (OECD 211)
LOEC 72h	>100 mg/l (Desmodesmus subspicatus) (OECD 201)
NOEC / 21 d	100 mg/l (Daphnia magna) (OECD 211)
NOEC / 72 h	100 mg/l (Daphnia magna) (OECD 201)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
NOEC / 3 d	>0.1-≤1 mg/l (Daphnia magna)
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) (OECD 201)
LOEC	0.32 mg/l (Daphnia magna) (21d)
NOEC / 72 h	3 mg/l (Pseudokirchneriella subcapitata)
CAS: 106-97-8 butane	
LC50 / 96 h	27.98 mg/l (fish)
EC50 / 4 d	7.71 mg/l (algae)
CAS: 74-98-6 propane	
LC50 / 96 h	27.98 mg/l (fish)
EC50 / 96 h	7.71 mg/l (algae)
CAS: 67-64-1 acetone	
LC50 / 96 h	5,540 mg/l (Oncorhynchus mykiss)
LC50 / 48h	8,800 mg/l (dp)
EC50 / 0,5h	61.15 mg/l (microorganisms)
LOEC / 28 d	1,106-2,212 mg/l (Daphnia magna)
NOEC / 28d	2,212 mg/l (Daphnia magna)
CAS: 75-28-5 isobutane	
LC50 / 96 h	27.98 mg/l (fish)
EC50 / 4 d	7.71 mg/l (algae)
CAS: 110-82-7 cyclohexane	
LC50 / 96h	4.53 mg/l (Pimephales promelas)
EC50 / 48h	2.4 mg/l (Daphnia magna)
EC50 / 72h	3.4 mg/l (Pseudokirchneriella subcapitata)
CAS: 107-98-2 1-Methoxy-2-propanol	
LC50 / 96h	>6,800 mg/l (Leuciscus idus) (DIN38412)
LC50 / 48h	23,300 mg/l (Daphnia magna)
EC50	>1,000 mg/l (Pseudokirchneriella subcapitata) (7d)
EC50/3h	>1,000 mg/l (activated sludge) (OECD 209)
CAS: 110-54-3 n-hexane	
LL50 / 96h	12.51 mg/l (Oncorhynchus mykiss)
EL50 / 48h	21.85 mg/l (Daphnia magna)

12.2 Persistence and degradability	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Biodegradation	81 % (28d)
CAS: 107-98-2 1-Methoxy-2-propanol	
Biodegradation	90-100 % (OEECD 301E)
CAS: 110-54-3 n-hexane	
Biodegradation	83 % (10d (ECHA))

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12.3 Bioaccumulative potential	
CAS: 60-29-7 diethyl ether	
log Kow	1.05
CAS: 110-82-7 cyclohexane	
log Kow	3.44 (pH: 7, 25°C)
CAS: 107-98-2 1-Methoxy-2-propanol	
log Kow	≤0.43 (25°C)
CAS: 110-54-3 n-hexane	
log Kow	4 (pH: 7, 20°C)

12.4 Mobility in soil
diethyl ether:
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:
Highly volatile, will partition rapidly to air.
12.5 Results of PBT and vPvB assessment
PBT:
According to information provided in the supply chain, the mix conatins less than 0.1% of any substances classified as PBT
vPvB:
According to information provided in the supply chain, the mix conatins less than 0.1% of any substances classified as vPvB
12.6 Endocrine disrupting properties
According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.
12.7 Other adverse effects
Additional ecological information:
General notes: The product may not be released into the environment without control.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods
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
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP14	Ecotoxic

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number	
ADR/RID/ADN, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR/RID/ADN	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable

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14.3 Transport hazard class(es)

ADR/RID/ADN

Class	2 5F Gases.
Label	2.1

IMDG, IATA

Class	2.1 Gases.
Label	2.1

14.4 Packing group
ADR/RID/ADN, 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/RID/ADN

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
European Directives:
Directive 2010/75/EU (VOC) 91.67 %
Catégorie SEVESO (DIRECTIVE 2012/18/EU)
P3a FLAMMABLE AEROSOLS
E2 Hazardous to the Aquatic Environment
REGULATION (EU) 2019/1148
This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

CAS: 67-64-1	acetone

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.

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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.
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.
EUH019 May form explosive peroxides.
EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008	
Aerosols, Section 2.3.1	On basis of test data
Skin corrosion/irritation Serious eye damage/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.

Version number of previous version: 5.00
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 = 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. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
: Aerosols – Category 3
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

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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.***