

Safety data sheet according to UK REACH

Printing date 17.09.2024

Version: 5.00 (replaces version 4.00)

Revision: 28.11.2023

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

1.1 Product identifier

Trade name: SONAX E-BIKE Chain spray

Article number:

08721000, 08723300

UFI: ETP0-R036-D00X-U3KN

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture

Lubricant

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.

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

Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 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.

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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/this mixture contains components that exhibit or are suspected of exhibiting endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

List II: Substances under evaluation for endocrine disruption under an EU legislation.

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

List II

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Formulation consisting of pressurised gas and mineral oil with additives in petroleum distillate**Dangerous components:**

CAS: 8042-47-5 EINECS: 232-455-8 Reg.nr.: 01-2119487078-27-xxxx	White mineral oil, petroleum ⚠ Asp. Tox. 1, H304	50-<75%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1-<3%
CAS: 1474044-79-5 EC No 939-717-7 Reg.nr.: 01-2119980985-16-xxxx	calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate) Alternative CAS number: 57855-77-3 ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319	1-<3%
CAS: 110-25-8 EC number: 701-177-3 Reg.nr.: 01-2119488991-20-xxxx	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=1); ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Aquatic Chronic 3, H412	<1%
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 (M=1); ⚠ Aquatic Chronic 1, H410 (M=1)	<0.25%

Additional information: 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 into the fresh air.

Remove soiled clothing

After inhalation:

Supply fresh air.

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In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, call medical assistance immediately.

After skin contact:

Wash the areas of skin affected with water and a mild detergent.

If symptoms persist consult doctor.

After eye contact:

Rinse opened eye for several minutes under running water. 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

Breathing difficulty

Headache

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

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)

Nitrogen oxides (NO_x)

Sulphur oxides (SO_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** *Ensure adequate ventilation***For non-emergency personnel**

Keep away from ignition sources.

Wear protective clothing.

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.

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.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Buildup of explosive mixtures possible without sufficient ventilation.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

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

Do not spray onto a naked flame or any incandescent material.

Highly volatile, flammable constituents are released during processing.

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:

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

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/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 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
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CAS: 75-28-5 isobutane

OEL (Ireland)	Short-term value: 1000 ppm
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CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

WEL (Great Britain)	Long-term value: 10 mg/m ³
OEL (Ireland)	Long-term value: 2 mg/m ³

Regulatory information

WEL (Great Britain): EH40/2020

OEL (Ireland): 2020 CoP for the Safety, Health and Welfare at Work

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)

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Inhalative	DNEL	35 mg/m ³ (consumer) (long-term exposure - systemic effects)
	DNEL	160 mg/m ³ (worker) (long-term exposure - systemic effects)
CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)		
Dermal	DNEL	10 mg/kg (worker) (longterm systematic effects)
Inhalative	DNEL	5 mg/m ³ (worker) (longterm systematic effects)
CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine		
Oral	DNEL	92 mg/kg (consumer) (acute systematic effects)
	DNEL	5 mg/kg (consumer) (longterm systematic effects)
Dermal	DNEL	50 mg/kg (consumer) (acute systematic effects)
	DNEL	10 mg/kg (worker) (longterm systematic effects)
Inhalative	DNEL	5 mg/kg (consumer) (longterm systematic effects)
	DNEL	100 mg/kg (worker) (acute systematic effects)
	DNEL	9 mg/m ³ (consumer) (acute locale effects)
	DNEL	18 mg/m ³ (worker) (acute locale effects)
	DNEL	0.005 mg/m ³ (consumer) (longterm local effects)
	DNEL	0.01 mg/m ³ (worker) (longterm local effects)
	DNEL	0.1 mg/m ³ (consumer) (longterm systematic effects)
	DNEL	0.2 mg/m ³ (worker) (longterm systematic effects)
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol		
Oral	DNEL	0.25 mg/kg bw/day (vls)
Dermal	DNEL	0.25 mg/kg (vls)
		0.5 mg/kg (wls)
Inhalative	DNEL	0.86 mg/m ³ (vls)
		3.5 mg/m ³ (wls)

PNECs

CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)		
Oral	PNEC	22.2 mg/kg food (human)
	PNEC	10 mg/l (KS)
		0.004 mg/l (water (fresh water))
		0.0004 mg/l (water (sea water))
PNEC		69 mg/kg (sediment (fresh water))
		6.9 mg/kg (sediment (sea water))
		13.9 mg/kg (soil)
CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine		
	PNEC	0.0043 mg/l (sporadic release)
		0.00043 mg/l (water (fresh water))
		0.000043 mg/l (water (sea water))
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol		
	PNEC	0.17 mg/l (sewage plant)
		0.0002 mg/l (freshwater (Süßwasser))
		0.00002 mg/l (sediment (sea water))
PNEC		0.0477 mg/kg (gro)
		0.0996 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.

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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:

Not required in normal cases

Use suitable respiratory protective device when high concentrations are present.

Hand protection Not required in normal cases.

Eye/face protection Not required in normal cases

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Fluid

Colour:

Brown

Odour:

Nearly odourless

Melting point/freezing point:

Undetermined.

Boiling point or initial boiling point and boiling range

200-499 °C

(Active ingredient data)

Extremely flammable aerosol.

Flammability

Lower and upper explosion limit

Lower:

1,5 Vol.% (Propellant data)

Upper:

10,9 Vol.% (Propellant data)

Flash point:

Not applicable, as aerosol.

Decomposition temperature:

Not determined.

pH

Not determined.

Viscosity:

Kinematic viscosity at 40 °C

<20.5 mm²/s

(Active ingredient data)

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:

0.86 - 0.87 g/cm³

(Active ingredient data)

Vapour density

Not determined.

9.2 Other information

Appearance:

Form:

Aerosol

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

Ignition temperature:

Product is not selfigniting.

Explosive properties:

Not determined.

Change in condition

Evaporation rate

Not determined.

Information with regard to physical hazard classes

Explosives

Void

Flammable gases

Void

Aerosols

Positive ignition distance test in line with 31.4 UN RTGD, handbook on test methods and criteria

Oxidising gases

Void

Gases under pressure

Void

Flammable liquids

Void

Flammable solids

Void

Self-reactive substances and mixtures

Void

Pyrophoric liquids

Void

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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: 8042-47-5 White mineral oil, petroleum

Oral	LD50	>5,000 mg/kg (rat)
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Dermal	LD50	>2,000 mg/kg (rabbit)
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Inhalative	LC50/4d	>5,200 mg/l (rat)
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CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkyl)naphthalenesulphonate)

Oral	LD50	>2,500 mg/kg (rat)
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Dermal	LD50	>10,000 mg/kg (rabbit)
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CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine

Oral	LD50	5,000 mg/kg (rat) (OECD 401)
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		>5,000 mg/kg (Ratte) (OECD 420)
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Inhalative	LC50 / 4h	1.37 mg/m ³ (rat)
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		1.8 mg/m ³ (Ratte) (OECD 403)
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CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral	LD50	>5,000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
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Dermal	LD50	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)
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Skin corrosion/irritation Based on available data, the classification criteria are not met.

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.

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.

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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: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkyl-naphthalenesulphonate)

Oral | NOAEL 90 d | 100 mg/kg (rat) (OECD 408, 90d, target organ: liver)

11.2 Information on other hazards

Endocrine disrupting properties

The product contains substances suspected of causing endocrine disruptions with health effects.

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

List II

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

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

LC50 / 96h	>100 mg/l (fish)
EC50 / 48h	>100 mg/l (daphnia)
NOEC/NOEL	≥100 mg/l (fish) (96h)
	≥100 mg/l (algae) (72h)
	≥100 mg/l (daphnia) (48h)

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: 75-28-5 isobutane

LC50 / 96 h	27.98 mg/l (fish)
EC50 / 4 d	7.71 mg/l (algae)

CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkyl-naphthalenesulphonate)

Inhalative	LC50/1	>9 mg/L (rat)
	LC50 / 96 h	>0.28 mg/l (fish)
	NOEL 21 d	2.2-10 mg/l (daphnia)
	EC50	>0.27 mg/l (daphnia)
	EC50 / 48h	>0.27 mg/l (daphnia)
	IC50 / 48h	>0.27 mg/l (daphnia)
	NOEC / 72 h	>0.27 mg/l (algae)

CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine

	LC50 / 96 h	6.8 mg/l (fish)
	EC20 / 0.5 h	50 mg/l (activated sludge)
	EC50 / 48h	0.43 mg/l (Daphnia magna)
	EC50 / 72h	6.3 mg/l (Scenedesmus subspicatus)
		0.91 mg/l (Desmodesmus subspicatus) (OECD 201)

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

	LC50 / 96 h	0.758 mg/l (algae)
	LC50 / 96h	0.199 mg/l (fish)
	EC50 / 48h	0.48 mg/l (Daphnia magna)
	NOEC / 21 d	0.053 mg/l (Oryzias latipes)
		0.069 mg/l (Daphnia magna)

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12.2 Persistence and degradability

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

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

CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine

CSB 2,400 mg/g

Biodegradation 85 % (OECD 301 B Ready Biodegradability - CO2 Evolution)

12.3 Bioaccumulative potential

CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)

BCF 3.16

log POW >6.6

CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine

log POW 3.5-4.2

12.4 Mobility in soil No further relevant information available.

12.5 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

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.

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
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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: No

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": UN 1950 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) 17.84 %

Catégorie SEVESO (DIRECTIVE 2012/18/EU) P3a FLAMMABLE AEROSOLS

REGULATION (EU) 2019/1148

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

None of the ingredients is listed.

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.

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Relevant phrases

H220 Extremely flammable gas.
 H280 Contains gas under pressure; may explode if heated.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Aerosols, Section 2.3.1 On basis of test data

Date of previous version: 28.04.2021**Version number of previous version: 4.00****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 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

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**