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

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

1.1 Product identifier

Trade name: STIHL Multispray
UFI: YPM0-20U8-R00J-AK11

1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance / the mixture
Penetrating oil
Lubricant
Anticorrosion additive
Consumer uses: Private households / general public / consumers
Professional uses
Uses advised against There is currently no information available on this.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Supplier:
United Kingdom
ANDREAS STIHL LTD. | Contra House | Oak Close | Camberley, Surrey, GU15 3FG | Great Britain
telephone: +44 1276 20202 | E-Mail: enquiries@stihl.co.uk
Ireland
ORIGO | Unit 23, Magna Drive, Magna Business Park | City West | Dublin 24 | Ireland
telephone: +353 1 4666 700 | E-Mail: sales@origo.ie
Manufacturer:
ANDREAS STIHL AG & Co.KG | Badstr. 115 | 71336 Waiblingen | Germany
telephone: +49 (0)6071 3055358 | E-Mail: kundenservice@stihl.de

Further information obtainable from: E-Mail: kundenservice@stihl.de

1.4 Emergency telephone number:
In England and Wales: dial **111** (NHS 111)
In Scotland: dial **111** (NHS 24)
In N Ireland: Contact your local GP or pharmacist during normal hours;
click here (www.gpoutofhours.hscni.net) for GP services Out-of-Hours.
In Republic of Ireland:
Healthcare Professionals: **+353 (01) 809 2566** (24 hour service)
Members of Public: **+353 (01) 809 2166** (8.00 a.m. to 10.00 p.m. 7 days a week)
Germany: **+49 (0) 89 19240** (Poison Centre Munich)

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.

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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.
Additional information:
Buildup of explosive mixtures possible without sufficient ventilation.
Labelling of packages where the contents do not exceed 125 ml
Marking container <125 ml deviates. Reduced labeling according article 29 and annex I, no. 1.5 GB CLP-regulation is used.
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

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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:		
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, EUH066	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 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%

Regulation (EC) No 648/2004 on detergents / Labelling for contents	
aliphatic hydrocarbons	≥30%

Additional information: For the wording of the listed hazard phrases refer to section 16.

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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.
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
Can form explosive gas-air mixtures.
In case of fire, the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO2)
Phosphorus oxides (e.g. P2O5)
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.
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.

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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.
When using product on electrical parts disconnect them from power supply first. Before re-assembly, let dry for 2 minutes.
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.
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:	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
RCP-TWA (EU)	Long-term value: 1200 mg/m³, 165 ppm Vapour / Total Hydrocarbons
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: 75-28-5 isobutane	
OEL (Ireland)	Short-term value: 1000 ppm
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol	
WEL (Great Britain)	Long-term value: 10 mg/m³
OEL (Ireland)	Long-term value: 2 mg/m³

Regulatory information
WEL (Great Britain): EH40/2020
OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

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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/m³ (consumer) (long-term exposure - systemic effects)
	DNEL	160 mg/m³ (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/m³ (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)
		10 mg/kg (worker) (longterm systematic effects)
	DNEL	5 mg/kg (consumer) (longterm systematic effects)
		100 mg/kg (worker) (acute systematic effects)
Inhalative	DNEL	9 mg/m³ (consumer) (acute locale effects)
		18 mg/m³ (worker) (acute locale effects)
	DNEL	0.005 mg/m³ (consumer) (longterm local effects)
		0.01 mg/m³ (worker) (longterm local effects)
	DNEL	0.1 mg/m³ (consumer) (longterm systematic effects)
		0.2 mg/m³ (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	0.435 mg/m³ (vls)
		1.76 mg/m³ (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	0.017 mg/l (sewage plant)
		0.0002 mg/l (freshwater (Süßwasser))
		0.00002 mg/l (sediment (sea water))
	PNEC	0.054 mg/kg (gro)
		0.458 mg/kg (sediment (fresh water))
		0.046 mg/kg (sediment (sea water))

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

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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.
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Respiratory protection:
Not required in normal cases
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*
Material of gloves
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 mm
Penetration time of glove material *Value for the permeation: Level 6 (≥480min)*
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-opaque*
Odour:	*Solvent-like*
Melting point/freezing point:	*Undetermined.*
Boiling point or initial boiling point and boiling range	*180 - 270 °C* *(Active ingredient data)*
Flammability	*Extremely flammable aerosol.*
Lower and upper explosion limit	
Lower:	*0.6 Vol % (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics)* *1,5 Vol.% (Propellant data)*
Upper:	*7 Vol % (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics)* *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 (DIN 51562)* *(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:	*0.84 - 0.85 g/cm³* *(Active ingredient data)*
Vapour density	*Not determined.*

9.2 Other information

Appearance:	
Form:	*Aerosol*

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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 determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated. >85% (percent by mass) flammable components, combustion energy 30 kJ/g
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:		
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/8h	>5,000 mg/m³ (rat) (OECD 403)
CAS: 8042-47-5 White mineral oil, petroleum		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
CAS: 1474044-79-5 calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)		
Oral	LD50	>2,500 mg/kg (rat)

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Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LD50	>20 mg/l (rat)
CAS: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine		
Oral	LD50	5,000 mg/kg (rat) (OECD 401)
		>5,000 mg/kg (Ratte) (OECD 420)
Inhalative	LC50 / 4h	1.37 mg/m³ (rat)
		1.8 mg/m³ (Ratte) (OECD 403)
CAS: 128-37-0 2,6-di-tert-butyl-p-cresol		
Oral	LD50	>5,000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD-Prüfrichtlinie 402)

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.

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, alkylnaphthalenesulphonate)		
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.
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 12: Ecological information

12.1 Toxicity There are no ecotoxicological data available on this mixture.

Aquatic toxicity:		
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
	LLO 96 h	1,000 mg/l (Oncorhynchus mykiss)
	ELO 48 h	1,000 mg/l (Daphnia magna)
	ELO 72 h	1,000 mg/l (Pseudokirchneriella subcapitata)
CAS: 8042-47-5 White mineral oil, petroleum		
	NOELR	>100 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
	LC50 / 96h	>1,000 mg/l (Leuciscus idus) (OECD 203)
	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)

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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, alkylnaphthalenesulphonate)		
Inhalative	LC50/1	>20 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)

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: 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 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: Do not allow product to reach ground water, water course or sewage system.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods
Waste classified as hazardous according to Annex III to Directive 2008/98/EC.
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

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
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.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	D
UN "Model Regulation":	UN1950, AEROSOLS, 2.1

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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) 50.62 %
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.

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.
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

Date of previous version: 28.06.2022
Version number of previous version: 7.01
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
Acute Tox. 4: Acute toxicity – Category 4

(Contd. on page 12)

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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.***