

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

Printing date 18.02.2022

Version: 5.00 (replaces version 4.03)

Revision: 18.02.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** STIHL Resin solvent Superclean**UFI:** NQD0-20X3-X00F-RWTT

[08.02.2019]

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

Resin and oil dissolver

Lubricant

Detergents

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:**

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**Further information obtainable from:****Headquarter:** see Manufacturer/Supplier**United Kingdom:**

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**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](http://www.gpoutofhours.hscni.net) ) for GP services Out-of-Hours.**In Republic of Ireland:** 01 809 2166 (Poisons Information Centre of Ireland)**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 CLP regulation.

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#### 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.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

##### PBT:

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 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: 72623-86-0 EINECS: 276-737-9 Reg.nr.: 01-2119474878-16-XXXX	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based ⚠ Asp. Tox. 1, H304	25-<50%
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: 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: 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; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	<0.25%

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

aliphatic hydrocarbons	≥30%
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<i>anionic surfactants</i>	(Contd. of page 2)
<i>perfumes</i>	<5%

**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.

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.

**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

Dizziness

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:**

Water haze

Foam

Fire-extinguishing powder

Carbon dioxide

**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 (CO<sub>2</sub>)

Sulphur dioxide (SO<sub>2</sub>)

#### 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.

Particular danger of slipping on leaked/spilled product.

Do not inhale gases / fumes / aerosols.

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**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 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.

**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.

Fumes can combine with air to form an explosive mixture.

**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/m <sup>3</sup> , 165 ppm Vapour / Total Hydrocarbons
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**CAS: 106-97-8 butane**

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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OEL (Ireland)	Short-term value: 1000 ppm
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**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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**Regulatory information**

WEL (Great Britain): EH40/2020

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

**DNELs**
**CAS: 72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based**

Inhalative	DNEL	1.2 mg/m <sup>3</sup> (consumer) (local / longterm (repeated))
		5.4 mg/m <sup>3</sup> (worker) (local / longterm (repeated))

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

Oral	DNEL	92 mg/kg (consumer) (acute systematic effects)
		5 mg/kg (consumer) (longterm systematic effects)
Dermal	DNEL	50 mg/kg (consumer) (acute systematic effects)
		10 mg/kg (worker) (longterm systematic effects)
Inhalative	DNEL	5 mg/kg (consumer) (longterm systematic effects)
		100 mg/kg (worker) (acute systematic effects)
	DNEL	9 mg/m <sup>3</sup> (consumer) (acute locale effects)
		18 mg/m <sup>3</sup> (worker) (acute locale effects)
	DNEL	0.005 mg/m <sup>3</sup> (consumer) (longterm local effects)
		0.01 mg/m <sup>3</sup> (worker) (longterm local effects)
DNEL	0.1 mg/m <sup>3</sup> (consumer) (longterm systematic effects)	
		0.2 mg/m <sup>3</sup> (worker) (longterm systematic effects)

**PNECs**
**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))

**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.

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:  $\geq 0.4$  mm

**Penetration time of glove material** Value for the permeation: Level 6 ( $\geq 480$ min)

**Eye/face protection** Not required in normal cases

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

<b>Physical state</b>	Fluid
<b>Colour:</b>	Yellow
<b>Odour:</b>	Vanilla
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	180 - 370 °C (Active ingredient data )
<b>Flammability</b>	Extremely flammable aerosol.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	0.6 Vol % (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics) 1,5 Vol.% (Propellant data)
<b>Upper:</b>	7 Vol % (Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics) 10,9 Vol.% (Propellant data)
<b>Flash point:</b>	Not applicable, as aerosol.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Viscosity:</b>	
<b>Kinematic viscosity at 40 °C</b>	<7 mm <sup>2</sup> /s (DIN 51562) (Active ingredient data )
<b>Solubility</b>	
<b>water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.81 - 0.83 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.

#### 9.2 Other information

<b>Appearance:</b>	
<b>Form:</b>	Aerosol
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Explosive properties:</b>	In use, may form flammable/explosive vapour-air mixture.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.

#### Information with regard to physical hazard classes

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Extremely flammable aerosol. >85% (percent by mass) flammable components, combustion energy 30 kJ/g
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void

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**Corrosive to metals**  
**Desensitised explosives**

Void  
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: 72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4d	>5,000 mg/l (rat)

**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/m <sup>3</sup> (rat) (OECD 403)

**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/m <sup>3</sup> (rat)
		1.8 mg/m <sup>3</sup> (Ratte) (OECD 403)

**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** Based on available data, the classification criteria are not met.

**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.

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None of the ingredients is listed.

## SECTION 12: Ecological information

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

### Aquatic toxicity:

**CAS: 72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based**

NOEC / 2 d	≥10,000 mg/l (Daphnia magna) (OECD 202)
LC50 / 96h	>100 mg/l (fish)
EC50 / 48h	>10,000 mg/l (Daphnia magna) (OECD 202)
ErC 50 / 72h	>100 mg/l (algae)
NOEC 96h	≥100 mg/l (fish) (OECD 203)
NOEC / 21 d	≥10 mg/l (Daphnia magna) (OECD 211)
NOEC / 72 h	≥100 mg/l (algae)

**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: 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: 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)

### 12.2 Persistence and degradability

The surface-active substances contained in the product meet the requirement of the EU Detergent Regulation ( EC/648/2004 ) for ultimate biodegradability for surfactants in detergents.

**CAS: 72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based**

Biodegradation	>60 % (28d)
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**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Biodegradation	69 % (28d)
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**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: 110-25-8 (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine**

log POW	3.5-4.2
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**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

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**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**

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**

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  
IMDG  
IATA

1950 AEROSOLS  
AEROSOLS  
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.

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**Transport/Additional information:**

<b>ADR/RID/ADN</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	D
<b>UN "Model Regulation":</b>	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)** 51.65 %

**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.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- 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**

<b>Aerosols</b>	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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**Version number of previous version:** 4.03

**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 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

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

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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 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  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

### Sources

"Regulation (EC) Nr. 1907/2006 (REACH), 1272/2008 (CLP), 648/2004 (Detergents) in the respective valid version. National occupation exposure limits for each country in the respective valid version. Transportation regulations according to ADR, RID, IMDG, IATA in the respective valid version."

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

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