



SI-COAT

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

1.1 - Product identifier

Trade name/designation SI-COAT, Silicone Conformal Coating
Chemical name
Product-type Mixture
Product code 772.400.000
UFI: YH30-X02M-400Q-XC4V

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

Relevant identified uses - Aerosols

1.3 - Details of the supplier of the safety data sheet

ECS Cleaning Solutions GmbH
Wolfener Str. 32-34
D-12681 Berlin Germany
Telephone : +49 (0)30 / 36 46 40 36
gunnar.kleinmann@ecsag.com

Distributor

ECS AG
Talstrasse 35-37
8808 Pfäeffikon
Switzerland
gunnar.kleinmann@ecsag.com
+41 (0)44 / 787 53 53

1.4 - Emergency telephone number

Verwenden Sie Ihre nationale oder lokale Notrufnummer (Deutschland)
Tel. No.: +49(0)30-19240.
Schweizerisches Toxikologisches Informationszentrum (Schweiz)/ Centro svizzero di informazione tossicologica (Svizzera)/ Centre Suisse d'Information Toxicologique (Suisse)
Tel. No.: +41 44 251 51 51
Tox Info Suisse Notrufnummer: 145 (24 Stunden)/ Numero di emergenza Tox Info Suisse: 145 (24 ore)/ Tox Info Suisse Numéro d'urgence: 145 (24h)
Giftnotrufzentrale (Österreich)
Tel. No.: +43 1 406 4343

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
STOT SE 3	STOT-single exposure - Category 3 (H336)
Aerosol 1	Aerosol - Category 1
Skin Irrit. 2	Irritation, Category 2
Eye Dam. 1	Serious eye damage, Category 1
STOT RE 2	STOT-repeated exposure - Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3

2.2 - Label elements

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Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: n-butyl acetate (CAS No.: 123-86-4) | xylene (CAS No.: 1330-20-7) | ethylbenzene (CAS No.: 100-41-4) | cyclohexanone (CAS No.: 108-94-1)

Signal word : Danger

Hazard pictograms



Hazard statements

H222	Extremely flammable aerosol
H229	Pressurised container: May burst if heated
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful 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.
P103	Read carefully and follow all instructions.
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.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection/face protection/protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor/a POISON CENTER.
P312	Call a doctor/a POISON CENTER if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of container/contents in accordance with local/national regulation.

EUH-phrases : None

2.3 - Other hazards

PBT-substance.

- The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII

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vPvB-substance.

- Octamethylcyclotetrasiloxan; [D4].
- The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII
- Octamethylcyclotetrasiloxan; [D4].

Other hazards which do not result in classification

- In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

Chemical name	No	%	Class(es)	Specific concentration limit
dimethyl ether	CAS No. : 115-10-6 Index No. : 603-019-00-8 EC No. : 204-065-8	>= 35 - < 40	Flam. Gas 1 - H220 Liquefied gas - H280	Not applicable
n-butyl acetate	CAS No. : 123-86-4 Index No. : 607-025-00-1 EC No. : 204-658-1	>= 15 - < 20	Flam. Liq. 3 - H226 STOT SE 3 - H336	Not applicable
acetone, propan-2-one, propanone	CAS No. : 67-64-1 Index No. : 606-001-00-8 EC No. : 200-662-2	>= 10 - < 12.5	Eye Irrit. 2 - H319 Flam. Liq. 2 - H225 STOT SE 3 - H336	Not applicable
xylene	CAS No. : 1330-20-7 Index No. : 601-022-00-9 EC No. : 215-535-7	>= 5 - < 10	Acute Tox. 4 Dermal - H312 Acute Tox. 4 Inhalation - H332 Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT RE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304	Not applicable
ethylbenzene	CAS No. : 100-41-4 Index No. : 601-023-00-4 EC No. : 202-849-4	>= 5 - < 10	Acute Tox. 4 Inhalation - H332 Asp. Tox. 1 - H304 Flam. Liq. 2 - H225 STOT RE 2 - H373 Aquatic Chronic 3 - H412	Not applicable
cyclohexanone INCI: CYCLOHEXANONE	CAS No. : 108-94-1 Index No. : 606-010-00-7 EC No. : 203-631-1	>= 5 - < 10	Acute Tox. 4 Inhalation - H332 Flam. Liq. 3 - H226 Acute Tox. 4 Dermal - H312 Acute Tox. 4 Oral - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318	Not applicable
octamethylcyclotetrasiloxane; [D4] INCI: CYCLOTETRASILOXANE	CAS No. : 556-67-2 Index No. : 014-018-00-1 EC No. : 209-136-7	>= 0.1 - < 0.5	Flam. Liq. 3 - H226 Aquatic Chronic 1 - H410 Repr. 2 - H361	M-factor: 10 / 10

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation

- Provide fresh air.
- If breathing is irregular or stopped, administer artificial respiration.
- After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.
- When in doubt or if symptoms are observed, get medical advice.
- Medical examination necessary even merely on suspicion of intoxication.



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	- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.
<u>Following skin contact</u>	- Wash immediately with: Water - Remove contaminated, saturated clothing immediately. - Wash contaminated clothing before reuse. - Medical treatment necessary.
<u>After eye contact</u>	- Rinse immediately carefully and thoroughly with eye-bath or water. - In case of eye irritation consult an ophthalmologist.
<u>After ingestion</u>	- If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. - Observe risk of aspiration if vomiting occurs. - Seek medical advice immediately.

4.2 - Most important symptoms and effects, both acute and delayed

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - Causes eye irritation.

Symptoms and effects - After ingestion - No information available.

4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. Antidotal dispensation.
- In case an intoxication is suspected, National Poisons Information Centre should be addressed immediately, number of Emergency telephone see in section 1.4.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

Suitable extinguishing media - ABC-powder
- Carbon dioxide (CO₂)
- Foam
- Extinguishing powder

Unsuitable extinguishing media - Water

5.2 - Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture - Extremely flammable aerosol. Pressurized container: May burst if heated.
- Vapours can form explosive mixtures with air.

Hazardous decomposition products - No information available.

5.3 - Advice for firefighters

- Remove product from area of fire.



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- Wear a self-contained breathing apparatus and chemical protective clothing.
- Move undamaged containers from immediate hazard area if it can be done safely.
- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
- Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel
- Use personal protection equipment.
 - Remove persons to safety.
 - Provide adequate ventilation.
 - Remove all sources of ignition.
 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Avoid contact with skin, eyes and clothes.
 - Wear breathing apparatus if exposed to vapours/dusts/aerosols.

- For emergency responders
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 - Environmental precautions

- Do not allow to enter into soil/subsoil.
- Do not allow to enter into surface water or drains.
- Explosion risk.
- Retain contaminated washing water and dispose it.

6.3 - Methods and material for containment and cleaning up

- Methods and material for containment
- Soak up inert absorbent and dispose as waste requiring special attention.

- Methods and material for cleaning up
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
 - Take up mechanically, placing in appropriate containers for disposal.
 - Clear contaminated areas thoroughly.
 - Ventilate affected area.

- Inappropriate techniques
- No information available.

6.4 - Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

- Recommendation
- Avoid: Eye contact
 - It is recommended to design all work processes always so that the following is excluded: Eye contact
 - After use replace the closing cap immediately.
 - Vapours/aerosols must be exhausted directly at the point of origin.

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- All work processes must always be designed so that the following is excluded: generation/formation of aerosols
- All work processes must always be designed so that the following is excluded: Inhalation
- See section 8.
- It is recommended to design all work processes always so that the following is excluded: Generation/formation of dust
- It is recommended to design all work processes always so that the following is excluded: generation/formation of aerosols
- Vapours can form explosive mixtures with air.
- When using do not smoke.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Use only in well-ventilated areas.

Advices on general occupational hygiene

- When using do not eat, drink, smoke, sniff.
- Wash hands before breaks and after work.
- Work in well-ventilated zones or use proper respiratory protection.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class : Aerosol dispensers and lighters
- Keep container tightly closed and in a well-ventilated place.
- Do not store together with: Combustible substance
- Keep locked up and out of reach of children.
- Store in a place accessible by authorized persons only.
- Ensure adequate ventilation of the storage area.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3 - Specific end use(s)

- Aerosols

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

n-butyl acetate (123-86-4)	
IOELV TWA mg/m ³ (UE)	241 mg/m ³
IOELV TWA ppm (UE)	50 ppm
IOELV STEL mg/m ³ (UE)	723 mg/m ³
IOELV STEL ppm (UE)	150 ppm
TWA EH40 ppm (UK)	150 ppm
TWA EH40 mg/m ³ (UK)	724 mg/m ³
STEL EH40 ppm (UK)	200 ppm
STEL EH40 mg/m ³ (UK)	966 mg/m ³
acetone, propan-2-one, propanone (67-64-1)	
IOELV TWA mg/m ³ (UE)	1210 mg/m ³
IOELV TWA ppm (UE)	500 ppm
TWA EH40 ppm (UK)	500 ppm
TWA EH40 mg/m ³ (UK)	1.21 mg/m ³
STEL EH40 ppm (UK)	1.5 ppm
STEL EH40 mg/m ³ (UK)	3.62 mg/m ³
xylene (1330-20-7)	



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IOELV TWA mg/m ³ (UE)	221 mg/m ³ Skin
IOELV TWA ppm (UE)	50 ppm Skin
IOELV STEL mg/m ³ (UE)	442 mg/m ³ Skin
IOELV STEL ppm (UE)	100 ppm Skin

ethylbenzene (100-41-4)

IOELV TWA mg/m ³ (UE)	442 mg/m ³ Skin
IOELV TWA ppm (UE)	100 ppm Skin
IOELV STEL mg/m ³ (UE)	884 mg/m ³ Skin
IOELV STEL ppm (UE)	200 ppm Skin

cyclohexanone (108-94-1)

IOELV TWA mg/m ³ (UE)	40.8 mg/m ³ Skin
IOELV TWA ppm (UE)	10 ppm Skin
IOELV STEL mg/m ³ (UE)	81.6 mg/m ³ Skin
IOELV STEL ppm (UE)	20 ppm Skin

dimethyl ether (115-10-6)

IOELV TWA mg/m ³ (UE)	1920 mg/m ³
IOELV TWA ppm (UE)	1000 ppm

DNEL / PNEC

n-butyl acetate (123-86-4)

Type	Value	User	Effect
DNEL short-term oral (acute)	2 mg/kg	Consumers	Systemic
DNEL long-term oral (repeated)	2 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	600 mg/m ³	Workers	Systemic
DNEL acute inhalative	600 mg/m ³	Workers	Local
DNEL acute inhalative	300 mg/m ³	Consumers	Systemic
DNEL acute inhalative	300 mg/m ³	Consumers	Local
DNEL long-term inhalative	300 mg/m ³	Workers	Systemic
DNEL long-term inhalative	300 mg/m ³	Workers	Local
DNEL long-term inhalative	35.7 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	35.7 mg/m ³	Consumers	Local
DNEL acute dermal, short-term	11 mg/kg	Workers	Systemic
DNEL acute dermal, short-term	6 mg/kg	Consumers	Systemic
DNEL long-term dermal	11 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	6 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0.18 mg/l		
PNEC aquatic, marine water	0.018 mg/l		
PNEC aquatic, intermittent release	0.36 mg/l		
PNEC sediment, freshwater	0.981 mg/kg		
PNEC sediment, marine water	0.098 mg/kg		
PNEC soil	0.09 mg/kg		
PNEC sewage treatment plant (STP)	35.6 mg/l		

acetone, propan-2-one, propanone (67-64-1)

Type	Value	User	Effect
DNEL long-term oral (repeated)	62 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	2420 mg/m ³	Workers	Systemic
DNEL long-term inhalative	1210 mg/m ³	Workers	Systemic
DNEL long-term inhalative	200 mg/m ³	Consumers	Systemic
DNEL long-term dermal	186 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	62 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	10.6 mg/l		
PNEC aquatic, marine water	1.06 mg/l		
PNEC aquatic, intermittent release	21 mg/l		



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PNEC sediment, freshwater	30.4 mg/kg		
PNEC sediment, marine water	3.04 mg/kg		
PNEC soil	33.3 mg/kg		
PNEC sewage treatment plant (STP)	100 mg/l		

xylene (1330-20-7)

Type	Value	User	Effect
DNEL long-term oral (repeated)	5 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	442 mg/m ³	Workers	Local
DNEL long-term inhalative	221 mg/m ³	Workers	Systemic
DNEL long-term inhalative	221 mg/m ³	Workers	Local
DNEL long-term inhalative	65.3 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	65.3 mg/m ³	Consumers	Local
DNEL long-term dermal	212 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	125 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0.044 mg/l		
PNEC aquatic, marine water	0.004 mg/l		
PNEC sediment, freshwater	2.52 mg/kg		
PNEC sediment, marine water	0.252 mg/kg		
PNEC soil	0.852 mg/kg		
PNEC sewage treatment plant (STP)	1.6 mg/l		

ethylbenzene (100-41-4)

Type	Value	User	Effect
DNEL acute inhalative	884 mg/m ³	Workers	Systemic
DNEL acute inhalative	884 mg/m ³	Workers	Local
DNEL long-term inhalative	442 mg/m ³	Workers	Systemic
DNEL long-term inhalative	442 mg/m ³	Workers	Local
PNEC aquatic, freshwater	0.1 mg/l		
PNEC aquatic, marine water	0.1 mg/l		

cyclohexanone (108-94-1)

Type	Value	User	Effect
DNEL short-term oral (acute)	1.5 mg/kg	Consumers	Systemic
DNEL long-term oral (repeated)	1.5 mg/kg bw/day	Consumers	Systemic
DNEL acute inhalative	20 mg/m ³	Workers	Systemic
DNEL acute inhalative	20 mg/m ³	Workers	Local
DNEL acute inhalative	5 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	10 mg/m ³	Workers	Systemic
DNEL long-term inhalative	10 mg/m ³	Workers	Local
DNEL long-term inhalative	2.55 mg/m ³	Consumers	Systemic
DNEL acute dermal, short-term	1 mg/kg	Consumers	Systemic
DNEL long-term dermal	4 mg/kg bw/day	Workers	Systemic
DNEL long-term dermal	1 mg/kg bw/day	Consumers	Systemic
PNEC aquatic, freshwater	0.356 mg/l		
PNEC aquatic, marine water	0.036 mg/l		
PNEC sediment, freshwater	2.69 mg/kg		
PNEC sediment, marine water	0.269 mg/kg		
PNEC soil	0.328 mg/kg		
PNEC sewage treatment plant (STP)	10 mg/l		

octamethylcyclotetrasiloxane; [D4] (556-67-2)

Type	Value	User	Effect
DNEL long-term oral (repeated)	3.7 mg/kg bw/day	Consumers	Systemic
DNEL long-term inhalative	73 mg/m ³	Workers	Systemic
DNEL long-term inhalative	73 mg/m ³	Workers	Local
DNEL long-term inhalative	13 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	13 mg/m ³	Consumers	Local

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PNEC aquatic, freshwater	2E-06 mg/l		
PNEC aquatic, marine water	2E-06 mg/l		
PNEC sediment, freshwater	3 mg/kg		
PNEC sediment, marine water	0.3 mg/kg		
PNEC soil	0.84 mg/kg		
PNEC Secondary Poisoning	41 mg/kg		
PNEC sewage treatment plant (STP)	10 mg/l		

dimethyl ether (115-10-6)			
Type	Value	User	Effect
DNEL long-term inhalative	471 mg/m ³	Consumers	Systemic
DNEL long-term inhalative	1894 mg/m ³	Workers	Systemic
PNEC aquatic, freshwater	0.155 mg/l		
PNEC aquatic, marine water	0.016 mg/l		
PNEC aquatic, intermittent release	1.549 mg/l		
PNEC sediment, freshwater	0.681 mg/kg		
PNEC sediment, marine water	0.069 mg/kg		
PNEC soil	0.045 mg/kg		
PNEC sewage treatment plant (STP)	160 mg/l		

8.2 - Exposure controls

Appropriate engineering controls

- Do not breathe dust/fume/gas/mist/vapours/spray.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: goggles
- DIN EN 166
- Protective gloves according to EN374
- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
- The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
- Suitable material: NBR (Nitrile rubber)
- Breakthrough time: > 480 min.
- Thickness of the glove material: >= 0,3 mm
- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is
- Wear anti-static footwear and clothing





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Environmental exposure controls

- Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	<u>Liquid</u>	<u>Appearance</u>	<u>Aerosol</u>
<u>Colour</u>	colourless	<u>Odour</u>	characteristic
Odour threshold		No data available	
pH		No data available	
Melting point		No data available	
Freezing point		No data available	
Boiling point		< -20 °C	
Flash point		< -20 °C	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		1.1 % Vol.	
Upper explosion limit		26.2 % Vol.	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		0.82 kg/l	
Solubility (Water)		No data available	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		350 °C	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

Particle characteristics

Particle size	No data available
Dustiness	No data available
Specific surface area	No data available
Shape	No data available

9.2 - Other information

VOC content	711.206 g/l
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- Extremely flammable aerosol. Pressurized container: May burst if heated.



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10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
- Vapours can form explosive mixtures with air.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Acute toxicity (inhalative) - Category 4 - Harmful if inhaled

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- Harmful by inhalation.

Toxicity : Substances

n-butyl acetate (123-86-4)	
LD50 oral (rat)	14130 mg/kg
LD50 dermal (rabbit)	14112 mg/kg
LC50 inhalation vapours (rat)	> 6.6 mg/l
acetone, propan-2-one, propanone (67-64-1)	
LD50 oral (rat)	5800 mg/kg
LD50 dermal (rabbit)	> 7426 mg/kg
LC50 inhalation vapours (rat)	76 mg/l
xylene (1330-20-7)	
LD50 oral (rat)	4300 mg/kg
LD50 dermal (rabbit)	2000 mg/kg
LC50 inhalation vapours (rat)	21.7 mg/l
ethylbenzene (100-41-4)	
LD50 oral (rat)	3500 mg/kg
LD50 dermal (rabbit)	17800 mg/kg
LC50 inhalation vapours (rat)	11 mg/l
cyclohexanone (108-94-1)	
LD50 oral (rat)	> 1620 mg/kg



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LC50 inhalation vapours (rat)	> 6.2 mg/l
octamethylcyclotetrasiloxane; [D4] (556-67-2)	
LD50 oral (rat)	> 4800 mg/kg
LD50 dermal (rat)	> 2000 mg/kg
dimethyl ether (115-10-6)	
LC50 inhalation vapours (rat)	308 mg/l

<u>Skin corrosion/irritation</u>	- Irritation, Category 2 - Causes skin irritation - Causes skin irritation.
<u>Serious eye damage/eye irritation</u>	- Serious eye damage, Category 1 - Causes serious eye damage - Risk of serious damage to eyes.
<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- STOT-single exposure - Category 3 (H336) - May cause drowsiness or dizziness - May cause drowsiness or dizziness.
<u>STOT-repeated exposure</u>	- STOT-repeated exposure - Category 2 - May cause damage to organs through prolonged or repeated exposure - Causes damage to organs through prolonged or repeated exposure.
<u>Aspiration hazard</u>	- Not classified - May be fatal if swallowed and enters airways.

11.2 - Information on other hazards

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

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- Toxic to aquatic life with long lasting effects.

Toxicity : Substances

n-butyl acetate (123-86-4)	
EC50 48 hr crustacea	44 mg/l
LC50 96 hr fish	18 mg/l
ErC50 algae	648 mg/l
NOEC chronic crustacea	23.2 mg/l
NOEC chronic algae	200 mg/l
acetone, propan-2-one, propanone (67-64-1)	
EC50 48 hr crustacea	8800 mg/l
LC50 96 hr fish	5540 mg/l < V < 11000 mg/l
ErC50 other aquatic plants	2100 mg/l
NOEC chronic crustacea	2212 mg/l
NOEC chronic algae	430 mg/l < V < 530 mg/l
xylene (1330-20-7)	
LC50 96 hr fish	4.2 mg/l
NOEC chronic crustacea	0.96 mg/l
ethylbenzene (100-41-4)	
LC50 96 hr fish	4.2 mg/l
ErC50 algae	3.6 mg/l
cyclohexanone (108-94-1)	
EC50 48 hr crustacea	> 100 mg/l
LC50 96 hr fish	527 mg/l < V < 732 mg/l
ErC50 algae	> 100 mg/l
NOEC chronic crustacea	26.6 mg/l
octamethylcyclotetrasiloxane; [D4] (556-67-2)	
EC50 48 hr crustacea	> 0.015 mg/l
LC50 96 hr fish	> 0.022 mg/l
ErC50 algae	> 0.022 mg/l
NOEC chronic fish	>= 0.0044 mg/l
NOEC chronic crustacea	>= 0.015 mg/l
dimethyl ether (115-10-6)	
EC50 48 hr crustacea	756 mg/l
LC50 96 hr fish	1783 mg/l
ErC50 algae	155 mg/l

12.2 - Persistence and degradability

Mixture

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

Substances

n-butyl acetate (123-86-4)	
% of biodegradation in 28 days	83 %

12.3 - Bioaccumulative potential

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Mixture

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

Substances

n-butyl acetate (123-86-4)	
Log KOC	200
acetone, propan-2-one, propanone (67-64-1)	
Log KOC	-0.24
xylene (1330-20-7)	
Log KOC	3.15
ethylbenzene (100-41-4)	
Log KOC	3.15
cyclohexanone (108-94-1)	
Log KOC	0.86
octamethylcyclotetrasiloxane; [D4] (556-67-2)	
Bioconcentration factor (BCF)	12400 L/kg
Log KOC	6.98
dimethyl ether (115-10-6)	
Log KOC	0.1

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII
- Octamethylcyclotetrasiloxan; [D4].
- The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII
- Octamethylcyclotetrasiloxan; [D4].

12.6 - Endocrine disrupting properties

- This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods	- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. - Handle contaminated packages in the same way as the substance itself. - Do not allow to enter into surface water or drains. - Do not allow to enter into soil/subsoil.
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	- Dispose of empty or partially emptied packaging/container/can after appropriate use of the product to municipal waste. - Gases in pressure containers (including halons) containing hazardous substances
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- Waste requires special monitoring. - Collect the waste separately. - Send to a hazardous waste incinerator facility under observation of official regulations. - Waste requires monitoring. - The waste is to be kept separate from other types of waste until its disposal.
<u>Community or national or regional provisions</u>	- No information available.
<u>Waste codes / waste designations according to Regulation 2014/955/UE</u>	16 05 04* - gases in pressure containers (including halons) containing hazardous substances

SECTION 14: Transport information

14.1 - UN number or ID number

<u>UN number (ADR)</u>	:	UN1950
<u>UN number (RID)</u>	:	UN1950
<u>UN number (ADN)</u>	:	UN1950
<u>UN number (IMDG)</u>	:	UN1950
<u>UN number (IATA)</u>	:	UN1950

14.2 - UN proper shipping name

<u>UN proper shipping name (ADR)</u>	:	AEROSOLS
<u>UN proper shipping name (RID)</u>	:	AEROSOLS
<u>UN proper shipping name (ADN)</u>	:	AEROSOLS
<u>UN proper shipping name (IMDG)</u>	:	AEROSOLS
<u>UN proper shipping name (IATA)</u>	:	AEROSOLS, FLAMMABLE

14.3 - Transport hazard class(es)

<u>ADR Transport hazard class(es)</u>	:	2
<u>ADR Classification code:</u>	:	5F
<u>Pictograms</u>		



<u>Transport hazard class(es)</u>	:	2
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SI-COAT

(RID)

Pictograms



Transport hazard class(es) : 2
(ADN)

Pictograms



Transport hazard class(es) : 2
(IMDG)

Pictograms



Transport hazard class(es) : 2
(IATA)

Pictograms



14.4 - Packing group

Packing group :
Packing group (RID) :
Packing group (ADN) :
Packing group (IMDG) :
Packing group (IATA) :

14.5 - Environmental hazards

Environmental hazards : No
Marine pollutant : No

14.6 - Special precautions for user

ADR

ADR Classification code: : 5F



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<u>ADR Special provisions</u>	:	190+327+344+625
<u>ADR Limited quantity (LQ)</u>	:	1L
<u>ADR Excepted quantities</u>	:	E0
<u>ADR Packing instructions</u>	:	P207 LP200
<u>ADR Special packing provisions</u>	:	PP87 RR6 L2
<u>ADR Mixed packing provisions</u>	:	MP9
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>ADR tank code</u>	:	
<u>ADR tanks special provisions</u>	:	
<u>Vehicle for tank carriage</u>	:	
<u>ADR Transport category</u>	:	2
<u>ADR Tunnel restriction code</u>	:	D
<u>ADR Special provisions loading, unloading and handling</u>	:	CV9 CV12
<u>Special provisions - Packages</u>	:	V14
<u>Special provisions - Bulk</u>	:	
<u>Special provisions - Operation</u>	:	S2
<u>ADR Hazard identification number (Kemler No.)</u>	:	

RID

<u>Special provisions</u>	:	190+327+344+625
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

ADN

<u>Special provisions</u>	:	190+327+344+625
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	

IMDG

<u>Special provisions</u>	:	63 190 277 327 344 381 959
<u>Limited quantity (LQ)</u>	:	
<u>Excepted quantities</u>	:	E0
<u>Packing instructions</u>	:	P207 LP200
<u>Special packing provisions</u>	:	PP87 L2
<u>IBC instruction(s)</u>	:	
<u>IBC provisions</u>	:	
<u>Instructions for portable tanks and bulk containers</u>	:	
<u>Special provisions for portable tanks and bulk containers</u>	:	
<u>EmS codes</u>	:	F-D, S-U
<u>Stowage and handling</u>	:	Category None SW1 SW22
<u>Segregation</u>	:	SG69
<u>Properties and observations</u>	:	
<u>IATA</u>		
<u>PCA - Excepted quantities</u>	:	E0



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<u>PCA - Limited Quantity - Packing Instructions</u>	:	Y203
<u>PCA - Limited Quantity - Maximum Net Quantity per Package</u>	:	30kg
<u>PCA - Packing Instructions</u>	:	203
<u>PCA - Maximum Net Quantity per Package</u>	:	75kg
<u>CAO - Packing Instructions</u>	:	203
<u>CAO - Maximum Net Quantity per Package</u>	:	150kg
<u>Special Provisions</u>	:	A145 A167 A802
<u>ERG Code</u>	:	10L

14.7 - Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1 - Safety, health and environmental regulations/legislation specific for the substance or mixture

<u>Substances REACH candidates</u>	octamethylcyclotetrasiloxane; [D4] (Index No.: 014-018-00-1 - EC No.: 209-136-7 - CAS No.: 556-67-2)
<u>Substances Annex XIV</u>	None
<u>Substances Annex XVII</u>	octamethylcyclotetrasiloxane; [D4] (Index No.: 014-018-00-1 - EC No.: 209-136-7 - CAS No.: 556-67-2)
<u>VOC content</u>	711.206 g/l

-- COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto. The Regulation has been published in the Official Journal of the European Union No. L 168/5 on 21 June, 2006;

-- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. The Regulation has been published in the Official Journal of the European Union No. L 156, on 14 June, 2016;

-- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 203, 26.6.2020, p. 28–58);

-- COUNCIL DIRECTIVE of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (OJ L 147, 9.6.1975, p. 40)

-- On 16 December 2008 the Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of chemical substances and mixtures was undersigned. The said Regulation amended and repealed the directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006 (the REACH Regulation). The Regulation has been published in the Official Journal of the European Union No. L 353, volume 51 on 31 December, 2008;

-- Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No.793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union No. L 396, 30-12-2006, error correction – No. L 136/3, 2007-5-29);

-- The European Agreement concerning International Carriage of Dangerous Goods by Road (ADR).

- 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC

- COMMISSION REGULATION (EU) 2016/918 of 19 May 2016 amending, for the purposes of its adaptation to technical and scientific progress

- Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

- Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

- Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

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- Emissions of organic substances in waste gas shall not exceed the mass flow of 0.50 kg/h or mass concentration of 50 mg/m³ in total.
- Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]
- P3a Flammable aerosols
- Swiss Regulations: Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Author	Description of the amendments
1	16/04/2024		

Abbreviations and acronyms

- ACGIH – Association advancing occupational and environmental health.
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS – Chemical Abstracts Service number.
- CEN – European Committee for Standardisation.
- EC50 – Effective concentration to 50% of a test population (half maximal effective concentration).
- IC50 – Inhibitory concentration to 50% of a test population (half maximal inhibitory concentration).
- IMDG – International Maritime Dangerous Goods.
- IMO – International Maritime Organization.
- LC50 – Lethal Concentration to 50 % of a test population.
- LD50 – Lethal Dose to 50% of a test population (Median Lethal Dose).
- MSDS – Material Safety Data Sheet.
- NIOSH – National Institute of Occupational Safety and Health.
- NOEC – No effect concentration.
- PBT – Persistent, Bioaccumulative and Toxic substance.
- PNEC(s) – Predicted No Effect Concentration(s).
- RID – Regulations concerning the International Carriage of Dangerous Goods by Rail.
- STOT – Specific Target Organ Toxicity.
- vPvB – Very Persistent and Very Bioaccumulative.

Data sources:

European Chemicals Agency (ECHA)
European Chemicals Bureau (ECB)
International Laboratories Organization (ILO)

Texts of the regulatory sentences

Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
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Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aerosol 1	Aerosol - Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Asp. Tox. 1	Aspiration hazard - Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation - Category 2
Eye Irrit. 2A	Eye irritation - Category 2A
Flam. Gas 1	Flammable gas. - Category 1
Flam. Liq. 2	Flammable liquid and vapour. - Category 2
Flam. Liq. 3	Flammable liquid and vapour. - Category 3
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H229	Pressurised container: May burst if heated
H280	Liquefied gas
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H361f	Suspected of damaging fertility
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Press. Gas	Gases under pressure
Repr. 2	Reproductive toxicity - Category 2
Skin Irrit. 2	Irritation, Category 2
STOT RE 2	STOT-repeated exposure - Category 2
STOT SE 3	STOT-single exposure - Category 3 (H336)

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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