

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 9600 SFR X-Cure

Creation date: 26.06.2015, Revision: 17.03.2025, Version: 10.4

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

1.1 Product identifier

Product name

9600 SFR X-Cure

UFI:

X9VG-6NAQ-SW8U-6FRK



<https://my.chemius.net/p/ggcoLf/en/pd/en>

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

Relevant identified uses

Clearcoat

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

SILCO d.o.o.
Sentrupert 5a
3303 Gomilsko, Slovenia
+386 3 703 3180
msds@silco.si

1.4 Emergency Telephone Number

Emergency

111

Supplier

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 3; H226 Flammable liquid and vapour.
Skin Sens. 1; H317 May cause an allergic skin reaction.
STOT SE 3; H336 May cause drowsiness or dizziness.
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

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silco[®]

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2.2 Label elements

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



Signal word: WARNING

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulation.

Contains:

pentaerythritol tetrakis(3-mercaptopropionate)

reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

2.3 Other hazards

PBT/vPvB

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

Section 3: Composition/information on ingredients

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
N-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	20-25	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	/
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2	5-10	Acute Tox. 4; H312 Acute Tox. 4; H332	/
1-methoxy-2-propyl acetate	108-65-6 203-603-9 607-195-00-7	2.5-5	Flam. Liq. 3; H226	/
heptan-2-one	110-43-0 203-767-1 606-024-00-3	2.5-5	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332	/
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	2.5-5	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	/
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	0.1-1	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	/
dibutyltin dilaurate	77-58-7 201-039-8 050-030-00-3	0.1-1	Muta. 2; H341 Repr. 1B; H360FD STOT RE 1; H372 (immune system)	/
ethyl ene bis(3-mercaptopropionate)	22504-50-3 245-044-3 - 01-2120775145-52	0.1-1	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
pentaerythritol tetraakis(3-mercaptopropionate)	7575-23-7 231-472-8 - 01-2119486981-23	0.01- 0.1	Acute Tox. 4; H302 Skin Sens. 1A; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/
reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	- 915-687-0 - 01-2119491304-40	0.01- 0.1	Skin Sens. 1A; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/
ethylenedisulfate)	123-81-9 204-653-4 - 01-2120775150-61	0.01- 0.1	Acute Tox. 4; H302 Skin Sens. 1A; H317 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 3; H335	/

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
penta eritrit ol tetra kis(3- merk aptop ropio nat)	7575-23-7 231-472-8 - 01-2119486981-23	0.01- 0.1	Acute Tox. 4; H302 Skin Sens. 1A; H317 Aquatic Acute 1; H400; M = 1 Aquatic Chronic 1; H410; M = 1	/
bis(is oprop yl)na phtha lene	38640-62-9 254-052-6 - 01-2119565150-48	0.01- 0.1	Asp. Tox. 1; H304 Aquatic Chronic 1; H410; M = 1	/
3- merc aptop ropio nic acid	107-96-0 203-537-0 - 01-2119489443-30	<0.01	Met. Corr. 1; H290 Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Acute Tox. 4; H332	/

Section 4: First aid measures

4.1 Description of first aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Obtain professional medical help!

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician! Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

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Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation. Vapours may cause drowsiness and dizziness.

Following skin contact

Contact with skin may cause irritation (redness, itching). May cause sensitisation by skin contact (itching, redness, rashes). Repeated exposure may cause dry skin or cracked skin.

Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

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No information.

Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

6.4 Reference to other sections

See also sections 8 and 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

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Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances. Keep away from sources of ignition – no smoking.

Packaging materials

Store only in original container.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
1-Methoxypropyl acetate (108-65-6)	274	50	548	100	Sk	/

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Name	mg/m ³	ml/m ³	Short-term value mg/m ³	Short-term value ml/m ³	Remark	Biological Tolerance Values
2-Butoxyethyl acetate (112-07-2)	133	20	332	50	Sk	/
Butyl acetate (123-86-4)	724	150	966	200	/	/
Heptan-2-one (110-43-0)	237	50	475	100	Sk	/

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

Name	Type	Exposure route	exp. frequency	Remark	Value
N-butyl acetate	Worker	inhalation	long term systemic effects	/	300 mg/m ³
N-butyl acetate	Worker	inhalation	short term systemic effects	/	600 mg/m ³
N-butyl acetate	Worker	inhalation	long term local effects	/	300 mg/m ³
N-butyl acetate	Worker	inhalation	short term local effects	/	600 mg/m ³
N-butyl acetate	Worker	dermal	long term systemic effects	/	11 mg/kg bw/day

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Name	Type	Exposure route	exp. frequency	Remark	Value
N-butyl acetate	Worker	dermal	short term systemic effects	/	11 mg/kg bw/day
N-butyl acetate	Consumer	inhalation	long term systemic effects	/	35.7 mg/m ³
N-butyl acetate	Consumer	inhalation	short term systemic effects	/	300 mg/m ³
N-butyl acetate	Consumer	inhalation	long term local effects	/	35.7 mg/m ³
N-butyl acetate	Consumer	inhalation	short term local effects	/	300 mg/m ³
N-butyl acetate	Consumer	dermal	long term systemic effects	/	6 mg/kg bw/day
N-butyl acetate	Consumer	dermal	short term systemic effects	/	6 mg/kg bw/day
N-butyl acetate	Consumer	oral	long term systemic effects	/	2 mg/kg bw/day
N-butyl acetate	Consumer	oral	short term systemic effects	/	2 mg/kg bw/day
2-butoxyethyl acetate	Worker	inhalation	long term systemic effects	/	133 mg/m ³
2-butoxyethyl acetate	Worker	inhalation	short term local effects	/	333 mg/m ³
2-butoxyethyl acetate	Worker	dermal	long term systemic effects	/	169 mg/kg bw/day
2-butoxyethyl acetate	Worker	dermal	short term systemic effects	/	120 mg/kg bw/day
2-butoxyethyl acetate	Consumer	inhalation	long term systemic effects	/	80 mg/m ³
2-butoxyethyl acetate	Consumer	inhalation	short term local effects	/	200 mg/m ³

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Name	Type	Exposure route	exp. frequency	Remark	Value
2-butoxyethyl acetate	Consumer	dermal	long term systemic effects	/	102 mg/kg bw/day
2-butoxyethyl acetate	Consumer	dermal	short term systemic effects	/	72 mg/kg bw/day
2-butoxyethyl acetate	Consumer	oral	long term systemic effects	/	8.6 mg/kg bw/day
2-butoxyethyl acetate	Consumer	oral	short term systemic effects	/	36 mg/kg bw/day
1-methoxy-2-propylacetate	Worker	inhalation	long term systemic effects	/	275 mg/m ³
1-methoxy-2-propylacetate	Worker	inhalation	short term local effects	/	550 mg/m ³
1-methoxy-2-propylacetate	Worker	dermal	long term systemic effects	/	796 mg/kg bw/day
1-methoxy-2-propylacetate	Consumer	inhalation	long term systemic effects	/	33 mg/m ³
1-methoxy-2-propylacetate	Consumer	inhalation	long term local effects	/	33 mg/m ³
1-methoxy-2-propylacetate	Consumer	dermal	long term systemic effects	/	320 mg/kg bw/day
1-methoxy-2-propylacetate	Consumer	oral	long term systemic effects	/	36 mg/kg bw/day
1-methoxy-2-propylacetate	Consumer	oral	short term systemic effects	/	500 mg/kg bw/day
heptan-2-one	Worker	inhalation	long term systemic effects	/	394.25 mg/m ³
heptan-2-one	Worker	inhalation	short term systemic effects	/	1516 mg/m ³
heptan-2-one	Worker	dermal	long term systemic effects	/	54.27 mg/kg bw/day

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Name	Type	Exposure route	exp. frequency	Remark	Value
heptan-2-one	Consumer	inhalation	long term systemic effects	/	84.31 mg/m ³
heptan-2-one	Consumer	dermal	long term systemic effects	/	23.32 mg/kg bw/day
heptan-2-one	Consumer	oral	long term systemic effects	/	23.32 mg/kg bw/day
n-butyl acetate	Worker	inhalation	long term systemic effects	/	300 mg/m ³
n-butyl acetate	Worker	inhalation	short term systemic effects	/	600 mg/m ³
n-butyl acetate	Worker	inhalation	long term local effects	/	300 mg/m ³
n-butyl acetate	Worker	inhalation	short term local effects	/	600 mg/m ³
n-butyl acetate	Worker	dermal	long term systemic effects	/	11 mg/kg bw/day
n-butyl acetate	Worker	dermal	short term systemic effects	/	11 mg/kg bw/day
n-butyl acetate	Consumer	inhalation	long term systemic effects	/	35.7 mg/m ³
n-butyl acetate	Consumer	inhalation	short term systemic effects	/	300 mg/m ³
n-butyl acetate	Consumer	inhalation	long term local effects	/	35.7 mg/m ³
n-butyl acetate	Consumer	inhalation	short term local effects	/	300 mg/m ³
n-butyl acetate	Consumer	dermal	long term systemic effects	/	6 mg/kg bw/day
n-butyl acetate	Consumer	dermal	short term systemic effects	/	6 mg/kg bw/day

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Name	Type	Exposure route	exp. frequency	Remark	Value
n-butyl acetate	Consumer	oral	long term systemic effects	/	2 mg/kg bw/day
n-butyl acetate	Consumer	oral	short term systemic effects	/	2 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	Value
N-butyl acetate	fresh water	/	0.18 mg/L
N-butyl acetate	water, intermittent release	/	0.36 mg/L
N-butyl acetate	marine water	/	0.018 mg/L
N-butyl acetate	water treatment plant	/	35.6 mg/L
N-butyl acetate	fresh water sediment	dry weight	0.981 mg/kg
N-butyl acetate	marine water sediment	dry weight	0.098 mg/kg
N-butyl acetate	soil	dry weight	0.09 mg/kg
2-butoxyethyl acetate	fresh water	/	0.304 mg/L
2-butoxyethyl acetate	water, intermittent release	/	0.56 mg/L
2-butoxyethyl acetate	marine water	/	0.03 mg/L
2-butoxyethyl acetate	water treatment plant	/	90 mg/L
2-butoxyethyl acetate	fresh water sediment	dry weight	2.03 mg/kg
2-butoxyethyl acetate	marine water sediment	dry weight	0.203 mg/kg
2-butoxyethyl acetate	soil	dry weight	0.415 mg/kg
2-butoxyethyl acetate	secondary poisoning	food	60 mg/kg
1-methoxy-2-propylacetate	fresh water	/	0.635 mg/L
1-methoxy-2-propylacetate	water, intermittent release	/	6.35 mg/L
1-methoxy-2-propylacetate	marine water	/	0.064 mg/L
1-methoxy-2-propylacetate	water treatment plant	/	100 mg/L
1-methoxy-2-propylacetate	fresh water sediment	dry weight	3.29 mg/kg

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Name	Exposure route	Remark	Value
1-methoxy-2-propylacetate	marine water sediment	dry weight	0.329 mg/kg
1-methoxy-2-propylacetate	soil	dry weight	0.29 mg/kg
heptan-2-one	fresh water	/	0.098 mg/L
heptan-2-one	water, intermittent release	/	0.982 mg/L
heptan-2-one	marine water	/	0.01 mg/L
heptan-2-one	water treatment plant	/	12.5 mg/L
heptan-2-one	fresh water sediment	dry weight	1.89 mg/kg
heptan-2-one	marine water sediment	dry weight	0.189 mg/kg
heptan-2-one	soil	dry weight	0.321 mg/kg
n-butyl acetate	fresh water	/	0.18 mg/L
n-butyl acetate	water, intermittent release	/	0.36 mg/L
n-butyl acetate	marine water	/	0.018 mg/L
n-butyl acetate	water treatment plant	/	35.6 mg/L
n-butyl acetate	fresh water sediment	dry weight	0.981 mg/kg
n-butyl acetate	marine water sediment	dry weight	0.098 mg/kg
n-butyl acetate	soil	dry weight	0.09 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not

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only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

Appropriate materials

Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	colourless
Odour	No information.
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	< 60 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	Substance/mixture is non-soluble (in water). Does not apply

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Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Relative density	1 – 1.04 kg/L
Relative vapour/gas density	No information.
Particle characteristics	No information.

9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

Weight organic solvents	331 g/l (VOC) 420 g/l (VOC (RFU))
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Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

10.5 Incompatible materials

Oxidants.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

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Section 11: Toxicological information

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

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
N-butyl acetate	dermal	LD ₅₀	rabbit	/	5000 mg/kg	/	/
N-butyl acetate	inhalation	LC ₅₀	rat	4 h	9.6 - 29.2 mg/l	/	dust/aerosol
N-butyl acetate	oral	LD ₅₀	rat	/	4700 mg/kg	/	/
2-butoxyethyl acetate	oral	LD ₅₀	rat	/	2400 mg/kg	/	/
2-butoxyethyl acetate	dermal	LD ₅₀	rabbit	/	1500 mg/kg	/	/
1-methoxy-2-propylacetate	oral	LD ₅₀	rat	/	8530 mg/kg	/	/
1-methoxy-2-propylacetate	inhalation	LC ₅₀	rat	4 h	35.7 mg/l	/	vapour
1-methoxy-2-propylacetate	dermal	LD ₅₀	rat	/	5000 mg/kg	/	/
heptan-2-one	dermal	LD ₅₀	rabbit	/	12600 mg/kg	/	/
heptan-2-one	oral	LD ₅₀	rat	/	1670 mg/kg	/	/
n-butyl acetate	dermal	LD ₅₀	rabbit	/	5000 mg/kg	/	/
n-butyl acetate	inhalation	LC ₅₀	rat	4 h	9.6 - 29.2 mg/l	/	dust/aerosol
n-butyl acetate	oral	LD ₅₀	rat	/	4700 mg/kg	/	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
2-butoxyethyl acetate	/	/	Prolonged and repeated contact can cause dermatitis.	/	/

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Name	Species	Time	result	Method	Remark
pentaeritritol tetrakis(3-merkaptopropionat)	/	/	Irritating.	/	/

Additional information

The product is not classified as irritating to skin and eyes.

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
2-butoxyethyl acetate	/	/	/	Blistering on cornea.	/	/
2-butoxyethyl acetate	/	/	/	Contact with eyes causes irritation.	/	/
2-butoxyethyl acetate	/	/	/	Contact with the eyes is painful.	/	/
1-methoxy-2-propylacetate	/	/	/	May cause irritation.	/	/
pentaeritritol tetrakis(3-merkaptopropionat)	/	/	/	Irritating.	/	/

(d) Respiratory or skin sensitisation

No information.

Additional information

It contains at least one ingredient that can cause sensitisation. Can cause allergic reaction.

May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

For components

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Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Rem
2-butoxyethyl acetate	inhalation	/	/	/	/	/	/	Vapours can cause headache and vomiting.	/	/
2-butoxyethyl acetate	inhalation	/	/	/	/	/	/	Narcosis and depression of the central nervous system, damage to the liver and kidneys.	/	/

Additional information

May cause drowsiness or dizziness.

(i) STOT-repeated exposure

No information.

Additional information

Repeated exposure may cause skin dryness or cracking. STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

Section 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

For components

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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
N-butyl acetate	LC ₅₀	18 mg/L	96 h	fish	/	/	/
N-butyl acetate	EC ₅₀	44 mg/L	48 h	crustacea	/	/	/
N-butyl acetate	EC ₅₀	675 mg/L	72 h	algae	/	/	/
2-butoxyethyl acetate	EC ₅₀	150 mg/L	48 h	crustacea	/	/	/
2-butoxyethyl acetate	EC ₅₀	500 mg/L	72 h	algae	/	/	/
2-butoxyethyl acetate	LC ₅₀	80 mg/L	96 h	fish	/	/	/
2-butoxyethyl acetate	EC ₅₀	2800 mg/L	0	bacteria	/	/	/
1-methoxy-2-propylacetate	LC ₅₀	100 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
1-methoxy-2-propylacetate	EC ₅₀	500 mg/L	48 h	crustacea	/	/	/
heptan-2-one	LC ₅₀	131 - 137 mg/L	96 h	fish	/	/	/
n-butyl acetate	LC ₅₀	18 mg/L	96 h	fish	/	/	/
n-butyl acetate	EC ₅₀	44 mg/L	48 h	crustacea	/	/	/
n-butyl acetate	EC ₅₀	675 mg/L	72 h	algae	/	/	/

Chronic (long-term) toxicity

No information.

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12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

No information.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)

For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
1-methoxy-2-propylacetate	organism	/	0.43	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

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Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment. Do not allow to reach ground water, water courses or sewage system.

For components

1-methoxy-2-propylacetate

Water hazard class 1 (Self-assessment): slightly hazardous for water

Section 13: Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapours.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

Section 14: Transport information

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
UN 1263	UN 1263	UN 1263	UN 1263
14.2 UN proper shipping name			
PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)			
3	3	3	3





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ADR/RID	IMDG	IATA	ADN
			
14.4 Packing group			
III	III	III	III
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 5 L Special provisions 163, 367, 650 Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Transport category 3 Tunnel restriction code (E) Classification code F1	Limited quantities 5 L EmS F-E, <u>S-E</u> Flash point 60 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y344 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 10 L Packing Instructions (Pkg Inst) 355 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 L Cargo Aircraft Only, Packing Instructions (CAO, Pkg Inst) 366 Special provisions A3, A72, A192 ERG code 3L	Limited quantities 5 L
14.7 Maritime transport in bulk according to IMO instruments			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

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Section 15: Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

EU limit values and category: B(d) 420 g/l. VOC Content: 420 g/l

Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other information

Indication of changes

14. Transport information

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

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ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW - see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern

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UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.