

SAFETY DATA SHEET according to regulation 1907/2006



Product name: 7026 DTP Primer Spray

Creation date: 18.01.2021, **Revision:** 04.11.2022, **version:** 4.1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

7026 DTP Primer Spray

Product code

[7026]

UFI:

E7FM-R00V-9002-FV1E



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

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

Relevant identified uses

No information.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Manufacturer

SILCO d.o.o.

Sentrupert 5a

3303 Gomilsko, Slovenia

+386 3 703 3180

msds@silco.si

1.4 Emergency Telephone Number

Emergency

112

Manufacturer

112

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Aerosol 1; H222 Extremely flammable aerosol.

Aerosol 1; H229.1 Pressurised container: May burst if heated.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Eye Irrit. 2; H319 Causes serious eye irritation.

STOT SE 3; H336 May cause drowsiness or dizziness.

Carc. 2; H351 Suspected of causing cancer.

2.2 Label elements

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

**Signal word: Danger**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

P273 Avoid release to the environment.

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P403 + P235 Store in a well-ventilated place. Keep cool.

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

2.3 Other hazards

No information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

For mixtures see 3.2.

3.2 Mixtures

Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	Notes for substances
dimethyl ether	115-10-6 204-065-8 603-019-00-8	35-40	Flam. Gas 1; H220	/	/
acetone	67-64-1 200-662-2 606-001-00-8	20-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	/	/
n-butyl acetate	123-86-4 204-658-1 607-025-00-1	27-31	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	/	/
Titanium Dioxide	13463-67-7 236-675-5 -	12-14,925	Carc. 2; H351	/	/
butan-1-ol	71-36-3 200-751-6 603-004-00-6	1-2.5	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 STOT SE 3; H336	/	/
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2	1-5	Acute Tox. 4; H312 Acute Tox. 4; H332	/	/

reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	25068-38-6 500-033-5 603-074-00-8	1-2	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	/	/
xylene	1330-20-7 215-535-7 601-022-00-9	0-0,5	Flam. Liq. 3; H226 Acute Tox. 4; H312 Skin Irrit. 2; H315 Acute Tox. 4; H332	/	/
ethylbenzene	100-41-4 202-849-4 601-023-00-4	0-0,1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Acute Tox. 4; H332 STOT RE 2; H373	/	/
propan-2-ol	67-63-0 200-661-7 603-117-00-0	0,025-0,1	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	/	/

SECTION 4: FIRST AID MEASURES

4.1 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

No information.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Vapours may cause drowsiness and dizziness.

Following skin contact

No information.

Following eye contact

Redness, tearing, pain.

Following ingestion

No information.

4.3 Indication of any immediate medical attention and special treatment needed

No information.

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

No information.

5.3 Advice for firefighters

Protective actions

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) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

No information.

Precautionary measures

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

Emergency procedures

No information.

For emergency responders

No information.

6.2 Environmental precautions

In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

No information.

For cleaning up

Collect the spray cans and hand them over to an authorized waste disposal contractor.

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.

Measures to prevent aerosol and dust generation

No information.

Measures to protect the environment

No information.

Other measures

No information.

Advice on general occupational hygiene

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.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Protect from open fire, heat and direct sunlight. Keep away from food, drink and animal feeding stuffs.

Packaging materials

No information.

Requirements for storage rooms and vessels

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
propan-2-ol	/	/	/	/	Short term (< 30 minut)	/
Ethylbenzene (100-41-4)	441	100	552	125	Sk	/

Xylene, o-,m-,p- or mixed isomers (1330-20-7)	220	50	441	100	Sk, BMGV	650 mmol methyl hippuric acid/mol creatinine in urine - Post shift 650 mmol methyl hippuric acid/mol creatinine in urine - Post shift 650 mmol methyl hippuric acid/mol creatinine in urine - Post shift
1-Methoxypropyl acetate (108-65-6)	274	50	548	100	Sk	/
2-Butoxyethyl acetate (112-07-2)	133	20	332	50	Sk	/
Acetone (67-64-1)	1210	500	3620	1500	/	/
Butan-1-ol (71-36-3)	/	/	154	50	Sk	/
Butyl acetate (123-86-4)	724	150	966	200	/	/
Dimethyl ether (115-10-6)	766	400	958	500	/	/
Ethanol (64-17-5)	1920	1000	/	/	/	/
Propan-2-ol (67-63-0)	999	400	1250	500	/	/
Titanium dioxide respirable (13463-67-7)	4	/	/	/	/	/
Titanium dioxide total inhalable (13463-67-7)	10	/	/	/	/	/

Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. 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
dimethyl ether	Worker	inhalation	long term systemic effects	/	1894 mg/m ³
dimethyl ether	Consumer	inhalation	long term systemic effects	/	471 mg/m ³
acetone	Worker	inhalation	long term systemic effects	/	1210 mg/m ³
acetone	Worker	inhalation	short term local effects	/	2420 mg/m ³
acetone	Worker	dermal	long term systemic effects	/	186 mg/kg bw/day
acetone	Consumer	inhalation	long term systemic effects	/	200 mg/m ³
acetone	Consumer	dermal	long term systemic effects	/	62 mg/kg bw/day
acetone	Consumer	oral	long term systemic effects	/	62 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
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
butan-1-ol	Worker	inhalation	long term local effects	/	310 mg/m ³
butan-1-ol	Consumer	inhalation	long term systemic effects	/	55.357 mg/m ³
butan-1-ol	Consumer	inhalation	long term local effects	/	155 mg/m ³
butan-1-ol	Consumer	dermal	long term systemic effects	/	3.125 mg/kg bw/day
butan-1-ol	Consumer	oral	long term systemic effects	/	1.562 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
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
xylene	Worker	inhalation	long term systemic effects	/	221 mg/m ³
xylene	Worker	inhalation	short term systemic effects	/	442 mg/m ³
xylene	Worker	inhalation	long term local effects	/	221 mg/m ³
xylene	Worker	inhalation	short term local effects	/	442 mg/m ³
xylene	Worker	dermal	long term systemic effects	/	212 mg/kg bw/day
xylene	Consumer	inhalation	long term systemic effects	/	65.3 mg/m ³
xylene	Consumer	inhalation	short term systemic effects	/	260 mg/m ³
xylene	Consumer	inhalation	long term local effects	/	65.3 mg/m ³
xylene	Consumer	inhalation	short term local effects	/	260 mg/m ³
xylene	Consumer	dermal	long term systemic effects	/	125 mg/kg bw/day

xylene	Consumer	oral	long term systemic effects	/	12.5 mg/kg bw/day
ethylbenzene	Worker	inhalation	long term systemic effects	/	77 mg/m ³
ethylbenzene	Worker	inhalation	short term local effects	/	293 mg/m ³
ethylbenzene	Worker	dermal	long term systemic effects	/	180 mg/kg bw/day
ethylbenzene	Consumer	inhalation	long term systemic effects	/	15 mg/m ³
ethylbenzene	Consumer	oral	long term systemic effects	/	1.6 mg/kg bw/day
propan-2-ol	Worker	inhalation	long term systemic effects	/	500 mg/m ³
propan-2-ol	Worker	dermal	long term systemic effects	/	888 mg/kg bw/day
propan-2-ol	Consumer	inhalation	long term systemic effects	/	89 mg/m ³
propan-2-ol	Consumer	dermal	long term systemic effects	/	319 mg/kg bw/day
propan-2-ol	Consumer	oral	long term systemic effects	/	26 mg/kg bw/day

PNEC values

For product

No information.

For components

Name	Exposure route	Remark	value
dimethyl ether	fresh water	/	0.155 mg/L
dimethyl ether	water, intermittent release	/	1.549 mg/L
dimethyl ether	marine water	/	0.016 mg/L
dimethyl ether	water treatment plant	/	160 mg/L
dimethyl ether	fresh water sediment	dry weight	0.681 mg/kg
dimethyl ether	marine water sediment	dry weight	0.069 mg/kg
dimethyl ether	soil	dry weight	0.045 mg/kg
acetone	fresh water	/	10.6 mg/L
acetone	water, intermittent release	/	21 mg/L
acetone	marine water	/	1.06 mg/L
acetone	water treatment plant	/	100 mg/L
acetone	fresh water sediment	dry weight	30.4 mg/kg
acetone	marine water sediment	dry weight	3.04 mg/kg
acetone	soil	dry weight	29.5 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
butan-1-ol	fresh water	/	0.082 mg/L
butan-1-ol	water, intermittent release	/	2.25 mg/L
butan-1-ol	marine water	/	0.008 mg/L
butan-1-ol	water treatment plant	/	2476 mg/L
butan-1-ol	fresh water sediment	dry weight	0.324 mg/kg
butan-1-ol	marine water sediment	dry weight	0.032 mg/kg
butan-1-ol	soil	dry weight	0.017 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
xylene	fresh water	/	0.327 mg/L
xylene	water, intermittent release	/	0.327 mg/L
xylene	marine water	/	0.327 mg/L
xylene	water treatment plant	/	6.58 mg/L
xylene	fresh water sediment	dry weight	12.46 mg/kg
xylene	marine water sediment	dry weight	12.46 mg/kg
xylene	soil	dry weight	2.31 mg/kg
ethylbenzene	fresh water	/	0.1 mg/L
ethylbenzene	water, intermittent release	/	0.1 mg/L
ethylbenzene	marine water	/	0.01 mg/L
ethylbenzene	water treatment plant	/	9.6 mg/L
ethylbenzene	fresh water sediment	dry weight	13.7 mg/kg
ethylbenzene	marine water sediment	dry weight	1.37 mg/kg
ethylbenzene	soil	dry weight	2.68 mg/kg
ethylbenzene	secondary poisoning	food	0.02 g/kg
propan-2-ol	fresh water	/	140.9 mg/L
propan-2-ol	water, intermittent release	/	140.9 mg/L
propan-2-ol	marine water	/	140.9 mg/L
propan-2-ol	water treatment plant	/	2251 mg/L
propan-2-ol	fresh water sediment	dry weight	552 mg/kg
propan-2-ol	marine water sediment	dry weight	552 mg/kg
propan-2-ol	soil	dry weight	28 mg/kg
propan-2-ol	secondary poisoning	food	160 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.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374). In case of prolonged exposure, wear protective gloves (EN 374).

Appropriate materials

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

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

No information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

colourless

Odour

No information.

Important health, safety and environmental information

Odour threshold	No information.
pH	7 at 20 °C, conc. 100 %
Melting point/Freezing point	No information.
Initial boiling point/boiling range	No information.
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	No information.
Vapour pressure	No information.
Vapour density	No information.
Density / weight	No information.
Solubility	No information.
Partition coefficient	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	No information.
Explosive properties	No information.
Oxidising properties	No information.

9.2 OTHER INFORMATION

Solids content	
Weight organic solvents	

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

No information.

10.4 Conditions to avoid

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

10.5 Incompatible materials

No information.

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.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
dimethyl ether	inhalation	LC ₅₀	rat	4 h	308 mg/m ³	/	/
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	/	/
Titanium Dioxide	oral	LD ₅₀	rat	/	> 10000 mg/kg	/	/
Titanium Dioxide	dermal	LD ₅₀	rabbit	/	> 10000 mg/kg	/	/
Titanium Dioxide	inhalation (dusts/mists)	LC ₅₀	rat	4 h	> 6.82 mg/l	/	/
2-methoxy-1-methylethyl acetate	oral	LD ₅₀	rat	/	8530 mg/kg	/	/
2-methoxy-1-methylethyl acetate	inhalation	LC ₅₀	rat	4 h	35.7 mg/l	/	vapour
2-methoxy-1-methylethyl acetate	dermal	LD ₅₀	rat	/	5000 mg/kg	/	/
butan-1-ol	oral	LD ₅₀	rat	/	790 mg/kg	/	/
butan-1-ol	dermal	LD ₅₀	rabbit	/	3400 mg/kg	/	/
butan-1-ol	inhalation	LC ₅₀	rat	4 h	24.64 mg/l	/	dust/aerosol

2-butoxyethyl acetate	oral	LD ₅₀	rat	/	2400 mg/kg	/	/
2-butoxyethyl acetate	dermal	LD ₅₀	rabbit	/	1500 mg/kg	/	/
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	oral	LD ₅₀	rat	/	5000 mg/kg	/	/
xylene	oral	LD ₅₀	rat	/	> 3523 mg/kg	/	/
xylene	dermal	LD ₅₀	rabbit	/	4200 mg/kg	/	/
xylene	inhalation (vapours)	LC ₅₀	rat	4 h	29 mg/l	/	/
ethylbenzene	dermal	LD ₅₀	rabbit	/	17800 mg/kg	/	/
ethylbenzene	oral	LD ₅₀	rat	/	3500 mg/kg	/	/
ethylbenzene	inhalation	LC ₅₀	/	4 h	11 mg/l	/	ATE
ethanol	dermal	LD ₅₀	rabbit	/	20000 mg/kg	/	/
ethanol	oral	LD ₅₀	rat	/	6200 - 17800 mg/kg	/	/
propan-2-ol	oral	LD ₅₀	/	/	2000 mg/kg	/	/
propan-2-ol	oral	LD ₅₀	mouse	/	3600 mg/kg	/	/
propan-2-ol	oral	LD ₅₀	rabbit	/	6410 mg/kg	/	/
propan-2-ol	oral	LD ₅₀	rat	/	4570 mg/kg	/	/
propan-2-ol	oral	LD ₅₀	rat	/	> 5000 mg/kg	/	/
propan-2-ol	oral	LD ₅₀	rat	/	5840 mg/kg	OECD 401	experimental value
propan-2-ol	oral	ATE	/	/	4396 mg/kg	/	/
propan-2-ol	oral	LDLo	human	/	100 ml	/	estimate
propan-2-ol	dermal	LD ₅₀	/	/	2000 mg/kg	/	/
propan-2-ol	dermal	LD ₅₀	mouse	/	6 mg/kg	/	/
propan-2-ol	dermal	LD ₅₀	rabbit	/	13400 mg/kg	/	/
propan-2-ol	dermal	LD ₅₀	rat	/	12800 mg/kg	/	/
propan-2-ol	dermal	LD ₅₀	rabbit	/	139000 mg/kg	/	/
propan-2-ol	dermal	LD ₅₀	rat	/	12800 mg/kg	/	/
propan-2-ol	dermal	LD ₅₀	rabbit	4 h	> 2000 mg/kg	OECD 402	experimental value
propan-2-ol	dermal	LD ₅₀	rabbit	24 h	16.4 ml/kg	OECD 402	experimental value
propan-2-ol	dermal	ATE	/	/	12870 mg/kg	/	/
propan-2-ol	inhalation	LC ₅₀	/	4 h	5 mg/l	/	vapour
propan-2-ol	inhalation	LC ₅₀	mouse	4 h	27.2 - 48 mg/l	/	vapour
propan-2-ol	inhalation	LC ₅₀	rat	4 h	72.6 mg/l	/	/
propan-2-ol	inhalation	LC ₅₀	rat	4 h	30 mg/l	/	vapour
propan-2-ol	inhalation	LC ₅₀	rat	4 h	30 mg/l	/	dust/aerosol
propan-2-ol	inhalation	LC ₅₀	rabbit	4 h	12800 ppmV	/	gas
propan-2-ol	inhalation	LC ₅₀	rat	4 h	30 ppmV	/	gas
propan-2-ol	inhalation	LC ₅₀	rat	8 h	> 10 mg/l	/	/
propan-2-ol	inhalation	LC ₅₀	/	/	> 5000 mg/l	/	/
propan-2-ol	inhalation	LC ₅₀	rat	4 h	72.6 mg/l	/	/
propan-2-ol	inhalation	LC ₅₀	rat	4 h	28500 ppm	/	/

propan-2-ol	inhalation	LC ₅₀	rat	4 h	30000 mg/m ³	/	/
propan-2-ol	inhalation	LC ₅₀	rat	6 h	> 25000 mg/l	/	/
propan-2-ol	inhalation	LC ₅₀	rat	8 h	47.5 mg/m ³	/	/
propan-2-ol	INV	LD ₅₀	rat	/	1088 mg/kg bw	/	/
propan-2-ol	SCU	LD ₅₀	mouse	/	6 mg/kg bw	/	/
propan-2-ol	inhalation (vapours)	LC ₅₀	rat	6 h	> 10000 ppm	OECD 403	experimental value

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
Titanium Dioxide	rabbit	/	Non-irritant.	/	/
2-butoxyethyl acetate	/	/	Prolonged and repeated contact can cause dermatitis.	/	/
reaction product: bisphenol-A- (epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	/	/	Irritating.	/	/
propan-2-ol	/	/	(Rabbit)	/	/
propan-2-ol	/	/	Irritating.	/	/
propan-2-ol	/	/	Non-irritant.	/	/
propan-2-ol	/	/	With prolonged exposure leads to dry skin.	/	/
propan-2-ol	/	/	{p:13263}	/	/
propan-2-ol	human	/	Non-irritant.	Human observation	experimental value
propan-2-ol	rabbit	/	Mild irritating.	OECD 404 (Acute Dermal Irritation/Corrosion)	/

(c) Serious eye damage/irritation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Titanium Dioxide	/	rabbit	/	Non-irritant.	/	/
2-methoxy-1-methylethyl acetate	/	/	/	May cause irritation.	/	/
2-butoxyethyl acetate	/	/	/	Blistering on cornea.	/	/
2-butoxyethyl acetate	/	/	/	Contact with eyes causes irritation.	/	/
2-butoxyethyl acetate	/	/	/	Contact with the eyes is painful.	/	/
propan-2-ol	/	/	/	Irritating.	/	/
propan-2-ol	/	/	/	Steam at high concentrations cause irritation.	/	/
propan-2-ol	/	rabbit	/	Severe irritation.	OECD 405 Acute Eye Irritation/Corrosion	experimental value
propan-2-ol	/	rabbit	/	No irritant effect.	OECD 405 Acute Eye Irritation/Corrosion	/

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Titanium Dioxide	dermal	human and animal	/	Non sensitising.	/	/
propan-2-ol	dermal	/	/	Guinea pig	/	/
propan-2-ol	dermal	/	/	Non sensitising.	/	/

propan-2-ol	dermal	/	/	OECD Guideline 406 (Skin Sensitisation)	/	/
propan-2-ol	dermal	Guinea pig (male/female)	/	Non sensitising.	Buehler test	/
propan-2-ol	dermal	Guinea pig (male/female)	21 days	Non sensitising.	OECD 406 (Skin Sensitization)	24, 48 h; experimental value

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
Titanium Dioxide	in-vitro mutagenicity	/	/	Non-mutagenic.	/	/
propan-2-ol	in-vitro mutagenicity	/	/	Negative with metabolic activation, negative without metabolic activation.	/	/
propan-2-ol	in-vitro mutagenicity	Bacteria (<i>S. typhimurium</i>)	/	Negative.	OECD 471 (EU B. 12/13)	experimental value
propan-2-ol	in-vitro mutagenicity	Chinese hamster ovary	/	Negative.	OECD 476	experimental value
propan-2-ol	in-vivo mutagenicity	mouse	/	Negative.	OECD 474	experimental value

(f) Carcinogenicity

For components

Name	Exposure route	Type	Species	Time	value	result	Method	Remark
Titanium Dioxide	/	/	/	/	/	IARC 2B: Possibly carcinogenic to humans.	/	/
Titanium Dioxide	oral	-	Multiple animal species	/	/	Not carcinogenic.	/	/
Titanium Dioxide	inhalation	-	rat	/	/	carcinogenic	/	/
propan-2-ol	inhalation (vapours)	NOEL	mouse	546 days	5000 ppm	No effect	OECD 451 Carcinogenicity Studies	5 days per week, 6 h per day; experimental value

(g) Reproductive toxicity

For components

Name	Reproductive toxicity type	Type	Species	Time	value	result	Method	Remark
propan-2-ol	Developmental toxicity	NOAEL	rat	1 months	596 mg/kg/day	/	OECD 414	Weight of evidence
propan-2-ol	Effects on fertility	NOAEL (F1)	rat	/	500 mg/kg/day	/	OECD 416	Weight of evidence
propan-2-ol	Effects on fertility	NOEL	rat	70 days	853 mg/kg/day	/	OECD 415	Weight of evidence

Summary of evaluation of the CMR properties

No information.

(h) STOT-single exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
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.	/	/
propan-2-ol	inhalation	/	/	/	/	/	/	Vapors may cause drowsiness and dizziness.	/	/
propan-2-ol	inhalation	/	/	/	/	/	/	Causes respiratory tract irritation.	/	/
propan-2-ol	inhalation	/	/	/	/	/	/	Symptoms: headache, dizziness, nausea, vomiting, drowsiness.	/	/

(i) STOT-repeated exposure

For components

Name	Exposure route	Type	Species	Time	Exposure	organ	value	result	Method	Remark
acetone	dermal	-	/	/	/	/	/	Prolonged exposure causes skin irritation.	/	/
Titanium Dioxide	inhalation	LOAEL	rat	2 years	/	Respiratory system	0.01 mg/L	Some positive data exist, but the data are not sufficient for classification.	/	/
Titanium Dioxide	inhalation	-	human	/	/	/	/	pulmonary fibrosis: negative	/	occupational exposure
propan-2-ol	inhalation (vapours)	NOAEL	rat	104 weeks	sub-chronic	general	5000 ppm	No effect.	OECD 451	6 h per day, 5 days per week
propan-2-ol	inhalation (vapours)	-	rat	6 h	sub-chronic	central nervous system	5000 ppm	Drowsiness, dizziness	OECD 403	experimental value

(j) Aspiration hazard

No information.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
dimethyl ether	EC ₅₀	> 4000 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
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-methoxy-1-methylethyl acetate	LC ₅₀	100 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
2-methoxy-1-methylethyl acetate	EC ₅₀	500 mg/L	48 h	crustacea	/	/	/
butan-1-ol	LC ₅₀	1376 mg/L	96 h	fish	/	/	/
butan-1-ol	EC ₅₀	1328 mg/L	48 h	crustacea	/	/	/
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	/	/	/
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	LC ₅₀	2.4 mg/L	96 h	fish	/	/	/
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	EC ₅₀	220 mg/L	96 h	algae	/	/	/
xylene	LC ₅₀	13.4 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
xylene	LC ₅₀	13.1 - 16.5 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	2661 - 4093 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
xylene	LC ₅₀	19 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	30.26 - 40.75 mg/L	96 h	fish	<i>Poecilia reticulata</i>	/	/
xylene	LC ₅₀	23.53 - 29.97 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
xylene	LC ₅₀	7711 - 9591 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
xylene	LC ₅₀	780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
xylene	LC ₅₀	> 780 mg/L	96 h	fish	<i>Cyprinus carpio</i>	/	/
xylene	LC ₅₀	13.5 - 17.3 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	/	/
xylene	EC ₅₀	3.82 mg/L	48 h	daphnia	/	/	/
ethylbenzene	EC ₅₀	2.1 mg/L	48 h	<i>Daphnia</i>	/	/	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	/	/	/
propan-2-ol	LC ₅₀	> 100 mg/L	48 h	fish	/	/	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	/	/	/
propan-2-ol	LC ₅₀	9.64 mg/L	96 h	fish	/	/	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	/	/	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/

propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
propan-2-ol	LC ₅₀	mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	/
propan-2-ol	LC ₅₀	8970 mg/L	48 h	fish	<i>Leuciscus idus</i>	/	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
propan-2-ol	LC ₅₀	9714 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	LC ₅₀	2285 - 13299 mg/L	48 h	daphnia	/	/	/
propan-2-ol	EC ₅₀	13299 mg/L	48 h	crustacea	/	/	/
propan-2-ol	EC ₅₀	13299 mg/L	48 h	crustacea	/	/	/
propan-2-ol	EC ₅₀	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	EC ₅₀	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	EC ₅₀	mg/L	48 h	crustacea	<i>Daphnia magna</i>	202 (Daphnia sp. Acute Immobilisation Test)	/
propan-2-ol	EC ₅₀	3.8 mg/L	8 h	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	EC ₅₀	9714 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	EC ₅₀	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	EC ₅₀	1800 mg/L	24 h	algae	/	/	/
propan-2-ol	EC ₅₀	1000 mg/L	72 h	algae	/	/	/
propan-2-ol	EC ₅₀	1800 mg/L	24 h	algae	/	/	/
propan-2-ol	EC ₅₀	> 1000 mg/L	72 h	algae	/	/	/
propan-2-ol	EC ₅₀	1000 mg/L	72 h	algae	/	/	/
propan-2-ol	EC ₅₀	1000 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
propan-2-ol	EC ₅₀	100 mg/kg	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
propan-2-ol	EC ₅₀	1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
propan-2-ol	EC ₅₀	> 1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	UBA	Experimental value, growth rate
propan-2-ol	EC ₅₀	5175 mg/L	/	bacteria	/	/	/
propan-2-ol	EC ₅₀	5175 mg/L	/	bacteria	/	/	/
propan-2-ol	EC ₅₀	41676 mg/L	30 min	bacteria	Activated sludge	DIN EN ISO 8192	experimental value, activated sludge
propan-2-ol	EC ₅₀	1050 mg/L	16 h	bacteria	<i>Pseudomonas putida</i>	/	/
propan-2-ol	EC ₅₀	5175 mg/L	18 h	bacteria	<i>Pseudomonas putida</i>	/	/
propan-2-ol	EC ₅₀	9714 mg/L	24 h	daphnia	/	/	/
propan-2-ol	EC ₅₀	9714 mg/L	24 h	daphnia	/	/	/
propan-2-ol	EC ₅₀	13299 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	experimental value
propan-2-ol	EC ₅₀	13299 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/
propan-2-ol	EC ₅₀	> 100 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/

propan-2-ol	EC ₅₀	13299 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)	/
propan-2-ol	EC ₅₀	10000 mg/L	24 h	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	EC ₅₀	1000 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	EC ₅₀	mg/L	96 h	Aquatic plants	<i>Scenedesmus subspicatus</i>	OECD Guideline 201 (Alga, Growth Inhibition Test)	/
propan-2-ol	EC ₅₀	> 1000 mg/L	/	microorganisms	Activated sludge	/	/
propan-2-ol	IC ₅₀	1000 mg/L	72 h	algae	<i>Desmodesmus subspicatus</i>	/	/
propan-2-ol	IC ₅₀	1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
propan-2-ol	ErC ₅₀	> 100 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
propan-2-ol	ErC ₅₀	> 1000 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	/	/
propan-2-ol	EC ₁₀	5175 mg/L	18 h	bacteria	<i>Pseudomonas putida</i>	/	/
propan-2-ol	EC ₁₀	5175 mg/L	18 h	activated sludge	<i>Pseudomonas putida</i>	DIN 38412/part 8	/
propan-2-ol	LC0	100 mg/L	48 h	fish	<i>Leuciscus idus</i>	/	/
propan-2-ol	LC/EC/IC ₅₀	100 - 1000 mg/L	/	fish	/	/	/
propan-2-ol	LC/EC/IC ₅₀	> 1000 mg/L	/	daphnia	/	/	/
propan-2-ol	LC/EC/IC ₅₀	100 mg/L	48 h	daphnia	<i>Daphnia magna</i>	/	/
propan-2-ol	LC ₅₀ /EC ₅₀ /IC ₅₀	> 1000 mg/L	/	algae	/	/	/
propan-2-ol	LC ₅₀ /EC ₅₀ /IC ₅₀	> 1000 mg/L	/	bacteria	/	/	/
propan-2-ol	EC ₅₀	> 1000 mg/L	96 h	algae	<i>Desmodesmus subspicatus</i>	OECD Guideline 201 (Alga, Growth Inhibition Test)	/
propan-2-ol	LC ₅₀	9640 mg/L	96 h	fish	<i>Pimephales promelas</i>	OECD Guideline 203 (Fish, Acute Toxicity Test)	Flow-through system, Fresh water, Experimental value, lethal

Chronic (long-term) toxicity For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
propan-2-ol	NOEC	30 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/
propan-2-ol	NOEC	1800 mg/l	7 days	algae	<i>Algae</i>	/	/
propan-2-ol	LOEC	1000 mg/l	8 days	algae	/	/	/

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
acetone	-	/	/	readily biodegradable	/	/
butan-1-ol	aerobic	%	/	readily biodegradable	OECD 301 D	/
propan-2-ol	aerobic	%	/	readily biodegradable	/	/

propan-2-ol	aerobic	%	/	readily biodegradable	OECD 301 E	/
propan-2-ol	aerobic	53 %	/	/	EU C.6	/
propan-2-ol	aerobic	86 %	/	readily biodegradable	/	100 mg/l
propan-2-ol	aerobic	95 %	/	readily biodegradable	OECD 301 E	/
propan-2-ol	aerobic	95 %	/	readily biodegradable	OECD 301 E	experimental value
propan-2-ol	aerobic	95 %	/	readily biodegradable	OECD 301 E	/
propan-2-ol	BOD ₅ /COD	0.53	/	/	/	/
propan-2-ol	BOD ₅ /COD	0.53	/	/	/	/
propan-2-ol	COD	2.23 g O ₂ /g	/	/	/	/
propan-2-ol	BOD	1.19 g O ₂ /g	/	/	/	/

12.3 Bioaccumulative potential

Partition coefficient

For components

Name	Media	value	Temperature °C	pH	Concentration	Method
acetone	Octanol-water	-0.23	/	/	/	/
propan-2-ol	Octanol-water (log Pow)	0.05	/	/	/	/
propan-2-ol	Octanol-water (log Pow)	0.05	/	/	/	Experimental value, BASF test

Bioconcentration factor (BCF)

For components

Name	Species	organism	value	Duration	Evaluation	Method	Remark
acetone	BCF	/	3	/	/	/	/
2-methoxy-1-methylethyl acetate	organism	/	0.43	/	/	/	/
propan-2-ol	organism	/	< 100	/	/	/	/
propan-2-ol	BCF	/	3	/	/	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

For components

Name	value	Temperature °C	Concentration	Method	Remark
propan-2-ol	22400 N/m	/	/	/	/

Adsorption/Desorption

For components

Name	Type	Criterion	value	Evaluation	Method	Remark
propan-2-ol	Soil	Henry constant (H)	0.82 Pa.m ³ / mol	/	/	/
propan-2-ol	Soil	log KOC	1.5	/	/	/

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Other adverse effects

No information.

12.7 Additional information

For components

2-methoxy-1-methylethyl acetate

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

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)

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

propan-2-ol

Product is easily biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product / Packaging disposal

Waste chemical

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.

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			
UN 1950	UN 1950	UN 1950	UN 1950
14.2 UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
14.3 Transport hazard class(es)			
2	2	2	2

			
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities 1 L Special provisions 190, 327, 344, 625 Packing Instructions P207, LP200 Special packing provisions PP87, RR6, L2 Transport category 2 Tunnel restriction code (D)	Limited quantities 1 L EmS F-D, S-U	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y203 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 30 kg G Packing Instructions (Pkg Inst) 203 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 kg Special provisions A145, A167, A802	Limited quantities 1 L
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code			
Goods may not be carried in bulk in bulk containers, containers or vehicles.	Goods may not be carried in bulk in bulk containers, containers or vehicles.	Not given/not applicable	Not given/not applicable

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) 2015/830)
- 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(e) 840 g/l. VOC Content: 839 g/l

Regulation EC 648/2004 on detergents
No information.

Special instructions
No information.

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

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

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
 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
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
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.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.