

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 28 Nov 2024
Print date: 29 Nov 2024
Version: 2



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Techno Finisher 500ml

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

1.1. Product identifier

Trade name/designation:

Techno Finisher 500ml

Article No.:

T122001

UFI:

AQPD-MR62-5PJD-1D03

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

Use of the substance/mixture:

Colour

Relevant identified uses:

Product Categories [PC]

PC 9a: Coatings and paints, thinners, paint removers

Process categories [PROC]

PROC 7: Industrial spraying

PROC 11: Non industrial spraying

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstallzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	
Skin corrosion/irritation (Skin Irrit. 2)	H315: Causes skin irritation.	
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	

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* 2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS05

Corrosion



GHS02

Flame

Signal word: Danger

Hazard components for labelling:

butan-1-ol; Hydrocarbons, C9, aromatics; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane; xylene

Hazard statements for physical hazards

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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Supplemental hazard information: none

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

Precautionary statements Storage

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

P501	Dispose of the contents / container in accordance with local / regional / national / international regulations.
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Additional information:

Formation of explosive mixtures possible without adequate ventilation.

* 2.3. Other hazards

Other adverse effects:

The product does not meet the PBT/vPvB criteria.

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SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 115-10-6 EC No.: 204-065-8 Index No.: 603-019-00-8 REACH No.: 01-2119472128-37	dimethyl ether Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) 308.5 mg/L	50 - < 75 Vol-%
EC No.: 918-668-5 REACH No.: 01-2119455851-35	Hydrocarbons, C9, aromatics Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg	10 - < 12.5 Vol-%
EC No.: 921-024-6 REACH No.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H335, H336), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,920 mg/kg ATE (inhalation, gases) > 20 ppmV ATE (inhalation, vapour) > 25.2 mg/L	5 - < 10 Vol-%
CAS No.: 71-36-3 EC No.: 200-751-6 Index No.: 603-004-00-6 REACH No.: 01-2119484630-38	butan-1-ol Acute Tox. 4 (H302), Eye Dam. 1 (H318), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) 2,292 mg/kg ATE (dermal) 3,430 mg/kg ATE (inhalation, gases) 17,000 ppmV ATE (inhalation, dust/mist) 17,000 mg/L	5 - < 10 Vol-%
CAS No.: 1330-20-7 EC No.: 215-535-7 Index No.: 601-022-00-9 REACH No.: 01-2119488216-32	xylene Acute Tox. 4 (H332, H312), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315) Warning Acute Toxicity Estimate ATE (oral) 4,300 mg/kg ATE (dermal) 12,126 mg/kg ATE (inhalation, gases) 29,000 ppmV ATE (inhalation, dust/mist) 6,350 mg/L	5 - < 10 Vol-%
EC No.: 905-588-0 REACH No.: 01-2119488216-32-XXXX	Reaction mass of ethylbenzene and xylene Acute Tox. 4 (H312, H332), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) > 3,523 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) 27.571 ppmV ATE (inhalation, vapour) 29,000 mg/L	< 2.5 Vol-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 100-41-4 EC No.: 202-849-4 Index No.: 601-023-00-4 REACH No.: 01-2119489370-35	ethylbenzene Acute Tox. 4 (H332), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT RE 2 (H373)    Danger Acute Toxicity Estimate ATE (oral) 3,500 mg/kg ATE (dermal) 15,354 mg/kg ATE (inhalation, dust/mist) 17.2 mg/L	< 2.5 Vol-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

* 4.1. Description of first aid measures

Following inhalation:

If unconscious, position and transport in stable lateral position.

In case of skin contact:

Wash off immediately with soap and water and rinse well.

After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

Following ingestion:

Drink plenty of water. Provide fresh air. Call a physician immediately.

* 4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

* 5.1. Extinguishing media

Suitable extinguishing media:

Adapt fire extinguishing measures to the surroundings.

* 5.2. Special hazards arising from the substance or mixture

Formation of toxic gases when heated or in case of fire.

* 5.3. Advice for firefighters

Special protective equipment: Put on breathing apparatus.

SECTION 6: Accidental release measures

* 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use suitable breathing apparatus. Wear protective equipment. Keep unprotected persons away. Ignition distance.

6.1.2. For emergency responders

No data available

* 6.2. Environmental precautions

In case of spillage into water or sewage system, inform the competent authorities. Do not allow to enter drains/surface water/ground water.

* 6.3. Methods and material for containment and cleaning up

Other information:

Apply neutralizing agent. Dispose of contaminated material as waste according to section 13. Provide adequate ventilation.

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* 6.4. Reference to other sections

See section 7 for further information on safe handling.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

SECTION 7: Handling and storage

* 7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Ensure good ventilation/extraction at the workplace.

Fire prevent measures:

Do not spray against a flame or on a glowing object. Keep away from sources of ignition - No smoking.

Have breathing apparatus ready.

* 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

The official regulations for the storage of pressurised gas packages must be observed.

Hints on storage assembly:

Not required.

Storage class (TRGS 510, Germany): 2B - Aerosol dispensers and lighters

Further information on storage conditions:

Keep container tightly closed.

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,910 mg/m ³)
MAK (AT)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	② 2,000 ppm (3,820 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
IOELV (EU)	dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m ³)
MAK (AT)	butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	① 50 ppm (150 mg/m ³)
MAK (AT)	butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	② 200 ppm (600 mg/m ³) ⑤ (max. 4x15 min./Schicht)
MAK (AT) from 25 Sept 2018	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	② 100 ppm (442 mg/m ³) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³) ② 100 ppm (442 mg/m ³) ⑤ (may be absorbed through the skin)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT) from 25 Sept 2018	xylene CAS No.: 1330-20-7 EC No.: 215-535-7	① 50 ppm (221 mg/m ³)
MAK (AT)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (440 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	② 200 ppm (880 mg/m ³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
IOELV (EU)	ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	① 100 ppm (442 mg/m ³) ② 200 ppm (884 mg/m ³) ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	1,894 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	471 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane EC No.: 921-024-6	2,035 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane EC No.: 921-024-6	608 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane EC No.: 921-024-6	773 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane EC No.: 921-024-6	300 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane EC No.: 921-024-6	699 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane EC No.: 921-024-6	699 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	310 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	55 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	3.125 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	221 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	65.3 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	442 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	260 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	221 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	65.3 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	442 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	260 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	212 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	125 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
xylene CAS No.: 1330-20-7 EC No.: 215-535-7	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	77 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	14.8 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	289 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	180 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	108 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	1.6 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	77 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	15 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	293 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	180 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.6 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.155 mg/L	① PNEC aquatic, freshwater
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.016 mg/L	① PNEC aquatic, marine water
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.681 mg/kg	① PNEC sediment, freshwater
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.069 mg/kg	① PNEC sediment, marine water
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	0.045 mg/kg	① PNEC soil
dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8	1.549 mg/L	① PNEC aquatic, intermittent release
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.082 mg/L	① PNEC aquatic, freshwater
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.0082 mg/L	① PNEC aquatic, marine water
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	2,476 mg/L	① PNEC sewage treatment plant
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.178 mg/kg	① PNEC sediment, freshwater
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.0178 mg/kg	① PNEC sediment, marine water
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	0.015 mg/kg	① PNEC soil
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6	2.25 mg/L	① PNEC aquatic, intermittent release
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	0.327 mg/L	① PNEC aquatic, marine water
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	6.58 mg/L	① PNEC sewage treatment plant
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, freshwater

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Substance name	PNEC Value	① PNEC type
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, marine water
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	2.31 mg/kg	① PNEC soil
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	0.1 mg/L	① PNEC aquatic, freshwater
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	0.01 mg/L	① PNEC aquatic, marine water
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	13.7 mg/kg	① PNEC sediment, freshwater
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	1.37 mg/kg	① PNEC sediment, marine water
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	2.68 mg/kg	① PNEC soil
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4	0.1 mg/L	① PNEC aquatic, intermittent release

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

8.2.2. Personal protection equipment



Eye/face protection:

Tight-fitting safety goggles

Skin protection:

Hand protection:

Wear protective gloves.

Glove material: Butyl caoutchouc (butyl rubber); The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer.

Penetration time of the glove material: Gloves made of butyl rubber with a material thickness of 0.4mm are resistant to: Acetone 480 min; Butyl acetate 60 min; Ethyl acetate 170 min; Xylene 42 min

Gloves made of butyl rubber with a layer thickness of 0.4 mm are resistant to solvents for 42 - 480

minutes. As a precautionary measure, we recommend users and those responsible for occupational safety to take a resistance of 42 minutes as a basis. Taking into account the information in chapter 3 of the MSDS, it is possible to assume a higher resistance in individual cases.

Respiratory protection:

In case of short or low exposure use breathing filter apparatus; in case of intensive or prolonged exposure use self-contained breathing apparatus. Filter A2/P2

Other protection measures:

General protective and hygienic measures: Keep away from food, drink and animal feed. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.

8.2.3. Environmental exposure controls

No data available

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SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Form: Aerosol

Colour: colourless

Odour: solvent-like

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Initial boiling point and boiling range	not applicable		② Aerosol
Flash point	not applicable		② Aerosol
Evaporation rate	not applicable		
Auto-ignition temperature	> 200 °C		② Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane
Upper/lower flammability or explosive limits	0.7 - 26.2 Vol-%		② Hydrocarbons, C9, aromatics - dimethyl ether
Vapour pressure	4,000 hPa	20 °C	
Density	0.8 g/cm ³	20 °C	
Bulk density	not applicable		
Water solubility	Immiscible		

* 9.2. Other information

Organic solvents: 88,5 %

Solid content: 11,7 %

9.2.1. Information with regard to physical hazard classes

Aerosols:

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

SECTION 10: Stability and reactivity

* 10.1. Reactivity

No further relevant information available.

* 10.2. Chemical stability

Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

* 10.3. Possibility of hazardous reactions

No dangerous reactions known.

* 10.4. Conditions to avoid

No further relevant information available.

* 10.5. Incompatible materials

No further relevant information available.

* 10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

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

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8

LD₅₀ oral: >2,000 mg/kg

LD₅₀ dermal: >2,000 mg/kg

LC₅₀ Acute inhalation toxicity (dust/mist): 308.5 mg/L 4 h (Rat)

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Hydrocarbons, C9, aromatics	EC No.: 918-668-5
LD₅₀ oral:	>5,000 mg/kg (Ratte) OECD 401
LD₅₀ dermal:	>2,000 mg/kg (Kaninchen) OECD 402
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane	EC No.: 921-024-6
LD₅₀ oral:	>5,000 mg/kg (Rat) OECD 401
LD₅₀ dermal:	>2,920 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (gas):	>20 ppmV 4 h (Rat) OECD 403
LC₅₀ Acute inhalation toxicity (vapour):	>25.2 mg/L 4 h (Rat)
butan-1-ol	CAS No.: 71-36-3 EC No.: 200-751-6
LD₅₀ oral:	2,292 mg/kg (Rat)
LD₅₀ dermal:	3,430 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (gas):	17,000 ppmV 4 h (Rat)
LC₅₀ Acute inhalation toxicity (dust/mist):	17,000 mg/L 4 h (Rat)
xylene	CAS No.: 1330-20-7 EC No.: 215-535-7
LD₅₀ oral:	4,300 mg/kg (Rat)
LD₅₀ dermal:	12,126 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (gas):	29,000 ppmV 4 h (Rat)
LC₅₀ Acute inhalation toxicity (dust/mist):	6,350 mg/L 4 h (Rat)
Reaction mass of ethylbenzene and xylene	EC No.: 905-588-0
LD₅₀ oral:	>3,523 mg/kg (Rat)
LD₅₀ dermal:	>2,000 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (gas):	27.571 ppmV 4 h (Rat)
LC₅₀ Acute inhalation toxicity (vapour):	29,000 mg/L 4 h (Rat)
ethylbenzene	CAS No.: 100-41-4 EC No.: 202-849-4
LD₅₀ oral:	3,500 mg/kg (Rat)
LD₅₀ dermal:	15,354 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (dust/mist):	17.2 mg/L (Rat)

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

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

No sensitising effect known.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure:

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

Aspiration hazard:

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

* 11.2. Information on other hazards

Endocrine disrupting properties:

None of the ingredients are included.

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SECTION 12: Ecological information

* 12.1. Toxicity

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8
LC ₅₀ : >4,000 mg/L 2 d (crustaceans, Daphnia magna)
LC ₅₀ : >4,000 mg/L 4 d (fish)
EC ₅₀ : 155 mg/L 4 d (Algae/water plant)
LC ₅₀ : >4,000 mg/L 2 d (daphnia magna)
EC ₅₀ : 155 mg/L 4 d (Alge)
Hydrocarbons, C9, aromatics EC No.: 918-668-5
EC ₅₀ : 2.75 mg/L 3 d (Pseudokirchneriella subcapitata)
EC ₅₀ : 302 mg/L 2 d (daphnia magna)
EC ₅₀ : 9.2 mg/L 4 d (Regenbogenforelle)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane EC No.: 921-024-6
LC ₅₀ : 11.4 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
EC ₅₀ : 3 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
NOEC: 0.17 mg/L 21 d (crustaceans, Daphnia magna)
LOEC: 0.32 mg/L 21 d (crustaceans, Daphnia magna)
EC ₅₀ : 30 - 100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
LC ₅₀ : >1 - 10 mg/L 4 d (fish, Pimephales promelas)
EC ₅₀ : >1 - 10 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 2.045 mg/L 28 d (fish, Oncorhynchus mykiss)
NOEC: 1 mg/L 21 d (crustaceans, Daphnia magna) OECD 211
ErC ₅₀ : 10 - 30 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
LOEC: 0.32 mg/L 21 d (Daphnia magna)
LC ₅₀ : 11.4 mg/L 4 d (fish)
butan-1-ol CAS No.: 71-36-3 EC No.: 200-751-6
LC ₅₀ : 1,376 mg/L 4 d (fish)
LC ₅₀ : 1,376 mg/L 4 d (fish)
xylene CAS No.: 1330-20-7 EC No.: 215-535-7
LC ₅₀ : 8.9 - 16.4 mg/L 4 d (fish, Pimephales promelas)
EC ₅₀ : 3.2 - 9.5 mg/L 2 d (crustaceans, Daphnia magna)
LC ₅₀ : 13.5 mg/L 4 d (fish)
EC ₅₀ : 7.4 mg/L 2 d (daphnia magna)
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0
LC ₅₀ : 8.9 - 16.4 mg/L 4 d (fish, Pimephales promelas)
EC ₅₀ : 3.2 - 9.5 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.44 mg/L 3 d (Algae/water plant)
LC ₅₀ : 2.6 mg/L 4 d (fish, Oncorhynchus mykiss)
EC ₅₀ : 2.2 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
NOEC: >1.39 mg/L (fish, Oncorhynchus kisutch)
NOEC: 0.74 mg/L (crustaceans, Ceriodaphnia dubia)
LC ₅₀ : 8.9 - 16.4 mg/L 4 d (Pimephales promelas)
EC ₅₀ : 3.2 - 9.5 mg/L 2 d (Daphnia magna)
ethylbenzene CAS No.: 100-41-4 EC No.: 202-849-4
LC ₅₀ : 42.3 mg/L 4 d (fish, Pimephales promelas)
EC ₅₀ : 75 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : 63 mg/L (Algae/water plant, Chlorella vulgaris)
NOEC: 0.96 mg/L (crustaceans, Ceriodaphnia dubia)

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12.2. Persistence and degradability

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane	EC No.: 921-024-6
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Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane	EC No.: 921-024-6
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Log K _{OW} : 5.2

Bioconcentration factor (BCF): 250

Reaction mass of ethylbenzene and xylene	EC No.: 905-588-0
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Log K _{OW} : 3.16

Bioconcentration factor (BCF): 29

12.4. Mobility in soil

No data available

* 12.5. Results of PBT and vPvB assessment

dimethyl ether	CAS No.: 115-10-6	EC No.: 204-065-8
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Results of PBT and vPvB assessment: —

Hydrocarbons, C9, aromatics	EC No.: 918-668-5
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Results of PBT and vPvB assessment: —

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclene, <5% n-hexane	EC No.: 921-024-6
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Results of PBT and vPvB assessment: —

butan-1-ol	CAS No.: 71-36-3	EC No.: 200-751-6
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Results of PBT and vPvB assessment: —

xylene	CAS No.: 1330-20-7	EC No.: 215-535-7
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Results of PBT and vPvB assessment: —

Reaction mass of ethylbenzene and xylene	EC No.: 905-588-0
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Results of PBT and vPvB assessment: —

ethylbenzene	CAS No.: 100-41-4	EC No.: 202-849-4
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Results of PBT and vPvB assessment: —

The product does not meet the PBT/vPvB criteria.

* 12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

* 12.7. Other adverse effects

Harmful to fish. Harmful to aquatic life.

water hazard class 2 (Self-assessment): obviously hazardous to water

Do not allow to enter drains/surface water/ground water. Must not be allowed to enter waste water or receiving waters undiluted or unneutralised. Drinking water hazard even when small quantities leak into the subsoil.

SECTION 13: Disposal considerations

* 13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow to enter drains/surface water/ground water.

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11 *	Waste paint and varnish containing organic solvents or other dangerous substances
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15 01 04	metallic packaging
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*: Evidence for disposal must be provided.

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Waste treatment options

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, Flammable
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
not determined	not determined	-	
14.5. Environmental hazards			
No	No data available	No	No
14.6. Special precautions for user			
Special Provisions: Attention: Gases Limited quantity (LQ): 1L Excepted Quantities (EQ): E0 Classification code: 5F Tunnel restriction code: (D)	Special Provisions: Attention: Gases Classification code: -	Special Provisions: Attention: Gases Limited quantity (LQ): 1L Excepted Quantities (EQ): E0 EmS-No.: F-D,S-U Remark: Stowage Code: SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.	Special Provisions: Attention: Gases

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* 14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are included.

Seveso category P3a FLAMMABLE AEROSOLS

Restrictions on use:

Quantity threshold (in tons) for use in lower class farms 150 t

Quantity threshold (in tons) for use in upper-tier establishments 500 t

Regulation (EC) 2019/1021 [POP Regulation]: None of the ingredients are included.

Regulation (EC) No 1907/2006 ANNEX XVII Restriction conditions: 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.

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

Volatile organic compounds (VOC) content in percent by weight: 88.49 Vol-%

15.1.2. National regulations

No data available

* 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
1.2.	Relevant identified uses of the substance or mixture and uses advised against
1.3.	Details of the supplier of the safety data sheet
2.1.	Classification of the substance or mixture
2.2.	Label elements
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
5.1.	Extinguishing media
5.2.	Special hazards arising from the substance or mixture
5.3.	Advice for firefighters
5.4.	Additional information
6.1.	Personal precautions, protective equipment and emergency procedures
6.2.	Environmental precautions
6.3.	Methods and material for containment and cleaning up
6.4.	Reference to other sections
6.5.	Additional information
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
9.2.	Other information
10.1.	Reactivity

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10.2.	Chemical stability
10.3.	Possibility of hazardous reactions
10.4.	Conditions to avoid
10.5.	Incompatible materials
10.6.	Hazardous decomposition products
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
13.1.	Waste treatment methods
14.6.	Special precautions for user
14.7.	Maritime transport in bulk according to IMO instruments
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2.	Chemical Safety Assessment
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.7.	Additional information

* 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SVHC	substances of very high concern
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

16.3. Key literature references and sources for data

No data available

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aerosols (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Serious eye damage/eye irritation (<i>Eye Dam. 1</i>)	H318: Causes serious eye damage.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

* 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.