Primer PU

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 16/04/2025 Version: 1.0

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

1.1. Product identifier

Product form	:	Mixture
Trade name	:	Primer PU
UFI	:	93W0-P0FW-700E-4YYF
Article number	:	00576456

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

Relevant identified uses

Use of the substance/mixture	:	adhesives

Uses advised against

Restrictions on use	:	Restricted to professional users

1.3. Details of the supplier of the safety data sheet

Manufacturer
fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
72178 Waldachtal
Germany
T +49(0)7443 12-0, F +49(0)7443 12-4222
info-sdb@fischer.de, www.fischer.de

Distributor
fischer fixings UK Ltd.
Whitely Road
Oxon OX10 9AT Wallingford
United Kingdom of Great Britain and Northern Ireland
T +44 14 91 82 79 00, F +44 14 91 82 79 53
info@fischer.co.uk, www.fischer.co.uk

1.4. Emergency telephone number

Emergency number	:	+49(0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2	H225
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H336

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS07

Signal word (CLP)	:	Danger
Contains	:	ethyl acetate; 4-isocyanatosulphonyltoluene; Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane; 3-trimethoxysilylpropane-1-thiol; 4-methyl-m-phenylene diisocyanate; hexamethylene-di-isocyanate
Hazard statements (CLP)	:	H225 - Highly flammable liquid and vapour. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	:	P102 - Keep out of reach of children. P210 - Keep away from sparks, hot surfaces, heat, open flames. – No smoking. P233 - Keep container tightly closed. P261 - Avoid breathing vapours, mist. P280 - Wear protective clothing, protective gloves, face protection.

		P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 - In case of fire: Use dry extinguishing powder, dry sand, alcohol resistant foam for extinction.
EUH-statements	:	EUH066 - Repeated exposure may cause skin dryness or cracking. EUH204 - Contains isocyanates. May produce an allergic reaction.
Extra phrases	:	As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethyl acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-46	≥ 50 – < 80	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
butanone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-43	≥ 20 – < 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
2-methoxy-1-methylethyl acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7 REACH-no: 01-2119475791-29	≥ 1 – < 10	Flam. Liq. 3, H226 STOT SE 3, H336
n-butyl acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1 REACH-no: 01-2119485493-29	≥ 1 – < 10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane	CAS-No.: 26426-91-5 EC-No.: 642-372-2	≥ 1 – < 10	Eye Irrit. 2, H319 Skin Sens. 1, H317
Xylene (reaction mass of ethylbenzene and xylene)	EC-No.: 905-588-0 REACH-no: 01-2119539452-40	≥ 1 – < 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation:vapour), H332 (ATE=11 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
4-isocyanatosulphonyltoluene	CAS-No.: 4083-64-1 EC-No.: 223-810-8 EC Index-No.: 615-012-00-7	≥ 0.1 – < 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Chronic 3, H412 EUH014
3-trimethoxysilylpropane-1-thiol	CAS-No.: 4420-74-0 EC-No.: 224-588-5 REACH-no: 01-2120763539-41	≥ 0.1 – < 1	Acute Tox. 4 (Oral), H302 (ATE=730 mg/kg bodyweight) Skin Sens. 1, H317 Aquatic Chronic 2, H411

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4-methyl-m-phenylene diisocyanate (Note C)	CAS-No.: 584-84-9 EC-No.: 209-544-5 EC Index-No.: 615-006-00-4 REACH-no: 01-2119486974-18	≥ 0.01 – < 0.1	Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412
hexamethylene-di-isocyanate (Note 2)	CAS-No.: 822-06-0 EC-No.: 212-485-8 EC Index-No.: 615-011-00-1 REACH-no: 01-2119457571-37	≥ 0.01 – < 0.1	Acute Tox. 3 (Inhalation:dust,mist), H331 (ATE=0.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
4-isocyanatosulphonyltoluene	CAS-No.: 4083-64-1 EC-No.: 223-810-8 EC Index-No.: 615-012-00-7	(5 ≤ C ≤ 100) Eye Irrit. 2; H319 (5 ≤ C ≤ 100) STOT SE 3; H335 (5 ≤ C ≤ 100) Skin Irrit. 2; H315
4-methyl-m-phenylene diisocyanate	CAS-No.: 584-84-9 EC-No.: 209-544-5 EC Index-No.: 615-006-00-4 REACH-no: 01-2119486974-18	(0.1 ≤ C ≤ 100) Resp. Sens. 1; H334
hexamethylene-di-isocyanate	CAS-No.: 822-06-0 EC-No.: 212-485-8 EC Index-No.: 615-011-00-1 REACH-no: 01-2119457571-37	(0.5 ≤ C ≤ 100) Resp. Sens. 1; H334 (0.5 ≤ C ≤ 100) Skin Sens. 1; H317

Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If symptoms persist call a doctor.

First-aid measures after skin contact : Wash with plenty of soap and water.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum).

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label. Wash out mouth with water and afterwards drink plenty of water.

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

No additional information available

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 : Water spray. Dry powder. Foam. Carbon dioxide (CO2).
Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Combustion products may include the following: carbon oxides (CO, CO2) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO_2 etc.).

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Use appropriate ventilation.

For non-emergency personnel

Emergency procedures : Ventilate spillage area.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Do not scatter spilled material with high-pressure water streams.
Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Avoid contact with skin, eyes and clothing. Remove dirty clothes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Storage temperature : 5 – 25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethyl acetate

ethyl acetate (141-78-6)	
IOEL TWA	734 mg/m³
	200 ppm
IOEL STEL	1468 mg/m³
	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
United Kingdom - Occupational Exposure Limits	
Local name	Ethyl acetate
WEL TWA (OEL TWA)	734 mg/m³
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m³
	400 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

butanone (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Butanone
IOEL TWA	600 mg/m³
	200 ppm
IOEL STEL	900 mg/m³
	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Butan-2-one (methyl ethyl ketone)
WEL TWA (OEL TWA)	600 mg/m³
	200 ppm
WEL STEL (OEL STEL)	899 mg/m³
	300 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Butan-2-one (methyl ethyl ketone)
BMGV	70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

2-methoxy-1-methylethyl acetate (108-65-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Methoxy-1-methylethylacetate
IOEL TWA	275 mg/m³
	50 ppm
IOEL STEL	550 mg/m³
	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

2-methoxy-1-methylethyl acetate (108-65-6)	
United Kingdom - Occupational Exposure Limits	
Local name	1-Methoxypropyl acetate
WEL TWA (OEL TWA)	274 mg/m³
	50 ppm
WEL STEL (OEL STEL)	548 mg/m³
	100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

n-butyl acetate (123-86-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	n-Butyl acetate
IOEL TWA	241 mg/m³
	50 ppm
IOEL STEL	723 mg/m³
	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
United Kingdom - Occupational Exposure Limits	
Local name	Butyl acetate
WEL TWA (OEL TWA)	724 mg/m³
	150 ppm
WEL STEL (OEL STEL)	966 mg/m³
	200 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment symbol(s):

Eye and face protection

Eye protection:
Safety glasses

Eye protection			
Type	**Field of application**	**Characteristics**	**Standard**
Safety glasses			EN 166

Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:
No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Disposable gloves	Nitrile rubber (NBR), Chloroprene rubber (CR), Butyl rubber	6 (> 480 minutes)	> 0,38		EN ISO 374

Respiratory protection

Respiratory protection:
No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Colourless.
Appearance	:	Liquid.
Odour	:	characteristic.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	79 °C
Flammability	:	Not available
Lower explosion limit	:	1 Vol-%
Upper explosion limit	:	11.5 Vol-%
Flash point	:	-4 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	> 20.5 mm²/s (40 °C)
Solubility	:	Moderately soluble in water. Reacts with water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	104 hPa 20°C
Vapour pressure at 50°C	:	Not available
Density	:	0.91 g/cm³
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

Other safety characteristics

VOC content	:	790.1 g/l 86,83%

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ethyl acetate (141-78-6)	
LD50 oral rat	11.3 ml/kg
LD50 oral	4934 mg/kg bodyweight rabbit
LD50 dermal rabbit	> 20000 mg/kg bodyweight

butanone (78-93-3)	
LD50 dermal rabbit	> 10 ml/kg

2-methoxy-1-methylethyl acetate (108-65-6)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)

n-butyl acetate (123-86-4)	
LD50 oral rat	10760 ml/kg
LD50 dermal rabbit	> 14000 mg/kg
LC50 Inhalation - Rat	10760 mg/l

4-isocyanatosulphonyltoluene (4083-64-1)	
LD50 oral rat	2330 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2080 - 2600
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: other:

Xylene (reaction mass of ethylbenzene and xylene)	
LD50 oral rat	3523 mg/kg
LD50 dermal rabbit	12126 mg/kg bodyweight
LC50 Inhalation - Rat [ppm]	6700 ppm
LC50 Inhalation - Rat (Vapours)	29 mg/l/4h

3-trimethoxysilylpropane-1-thiol (4420-74-0)	
LD50 oral rat	730 mg/kg

4-methyl-m-phenylene diisocyanate (584-84-9)	
LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	> 9400 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	0.234 mg/l Source: ECHA

hexamethylene-di-isocyanate (822-06-0)	
LD50 oral rat	710 mg/kg
LD50 dermal rat	> 7000 mg/kg bodyweight
LD50 dermal rabbit	599 mg/kg
LC50 Inhalation - Rat	0.124 mg/l air
LC50 Inhalation - Rat (Vapours)	0.24 mg/l

Skin corrosion/irritation : Not classified

n-butyl acetate (123-86-4)	
pH	6.2

Serious eye damage/irritation : Causes serious eye irritation.

n-butyl acetate (123-86-4)	
pH	6.2

Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

4-methyl-m-phenylene diisocyanate (584-84-9)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified
STOT-single exposure : May cause drowsiness or dizziness.

ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.

butanone (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.

2-methoxy-1-methylethyl acetate (108-65-6)	
STOT-single exposure	May cause drowsiness or dizziness.

n-butyl acetate (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.

4-isocyanatosulphonyltoluene (4083-64-1)	
STOT-single exposure	May cause respiratory irritation.

Xylene (reaction mass of ethylbenzene and xylene)	
LOAEC (inhalation, rat, dust/mist/fume)	6.3 mg/l 8 h
NOAEL (oral, rat)	250 mg/kg bodyweight Eyes
NOAEC (inhalation, rat, gas)	3.5 mg/l Eyes
STOT-single exposure	May cause respiratory irritation.

4-methyl-m-phenylene diisocyanate (584-84-9)	
STOT-single exposure	May cause respiratory irritation.

hexamethylene-di-isocyanate (822-06-0)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

ethyl acetate (141-78-6)	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)

2-methoxy-1-methylethyl acetate (108-65-6)	
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

n-butyl acetate (123-86-4)	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)

Xylene (reaction mass of ethylbenzene and xylene)	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Primer PU	
Viscosity, kinematic	> 20.5 mm²/s (40 °C)

butanone (78-93-3)	
Viscosity, kinematic	0.494 mm²/s

n-butyl acetate (123-86-4)	
Viscosity, kinematic	0.83 mm²/s

Xylene (reaction mass of ethylbenzene and xylene)	
Viscosity, kinematic	≈ 0.76 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

4-methyl-m-phenylene diisocyanate (584-84-9)	
Viscosity, kinematic	2 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Not classified

Primer PU	
Additional information	Harmful to fishes. Do not allow to enter sewers, surface or groundwater. Harmful to aquatic life. Danger of pollution of drinking water when product enters the soil

ethyl acetate (141-78-6)	
LC50 - Fish [1]	230 mg/l Pimephales promelas
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

butanone (78-93-3)	
LC50 - Fish [1]	2993 mg/l Pimephales promelas
EC50 - Crustacea [1]	308 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	1220 mg/l

2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 - Fish [1]	> 100 mg/l Oryzias latipes (Ricefish) (OECD 203 method)
EC50 - Crustacea [1]	> 500 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	> 1000 mg/l Pseudokirchneriella subcapitata (OECD 201 method)
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	47.5 mg/l Oryzias latipes (Ricefish)

n-butyl acetate (123-86-4)	
LC50 - Fish [1]	18 mg/l Pimephales promelas
EC50 - Crustacea [1]	44 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	397 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	47.6 mg/l Daphnia magna (Water flea)
NOEC (chronic)	23.2 mg/l Daphnia magna (Water flea)

4-isocyanatosulphonyltoluene (4083-64-1)	
LC50 - Fish [1]	> 45 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna

4-isocyanatosulphonyltoluene (4083-64-1)	
EC50 72h - Algae [1]	30 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	25 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

Xylene (reaction mass of ethylbenzene and xylene)	
LC50 - Fish [1]	2.6 – 11.23 mg/l
EC50 - Crustacea [1]	> 3.4 mg/l
EC50 72h - Algae [1]	1.3 – 4.9 mg/l
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic crustacea	0.96 mg/l Daphnia magna (Water flea)
NOEC chronic algae	0.44 mg/l Green algae

3-trimethoxysilylpropane-1-thiol (4420-74-0)	
LC50 - Fish [1]	439 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	6.7 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	931 mg/l Desmodesmus subspicatus
EC50 72h - Algae [2]	267 mg/l Desmodesmus subspicatus
ErC50 algae	43 mg/l

4-methyl-m-phenylene diisocyanate (584-84-9)	
LC50 - Fish [1]	133 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	12.5 mg/l Daphnia magna (Water flea)
EC50 96h - Algae [1]	3230 mg/l Skeletonema costatum (marine diatom)
EC50 96h - Algae [2]	4300 mg/l Chlorella pyrenoidosa
LOEC (chronic)	2.2 mg/l Daphnia magna (Water flea)
NOEC (chronic)	1.1 mg/l Daphnia magna (Water flea)

hexamethylene-di-isocyanate (822-06-0)	
LC50 - Fish [1]	≥ 82.8 mg/l
EC50 72h - Algae [1]	> 77.4 mg/l

12.2. Persistence and degradability

Primer PU	
Persistence and degradability	Not rapidly degradable

ethyl acetate (141-78-6)	
Persistence and degradability	Not rapidly degradable

butanone (78-93-3)	
Persistence and degradability	Not rapidly degradable

2-methoxy-1-methylethyl acetate (108-65-6)	
Persistence and degradability	Rapidly degradable

n-butyl acetate (123-86-4)	
Persistence and degradability	Rapidly degradable

4-isocyanatosulphonyltoluene (4083-64-1)	
Persistence and degradability	Not rapidly degradable

Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane (26426-91-5)	
Persistence and degradability	Not rapidly degradable

Xylene (reaction mass of ethylbenzene and xylene)	
Persistence and degradability	Not rapidly degradable
Biodegradation	98 % BOD/ThOD

3-trimethoxysilylpropane-1-thiol (4420-74-0)	
Persistence and degradability	Not rapidly degradable

4-methyl-m-phenylene diisocyanate (584-84-9)	
Persistence and degradability	Not rapidly degradable

hexamethylene-di-isocyanate (822-06-0)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

ethyl acetate (141-78-6)	
Partition coefficient n-octanol/water (Log Pow)	0.73 Source: ICSC

butanone (78-93-3)	
Partition coefficient n-octanol/water (Log Pow)	0.29

n-butyl acetate (123-86-4)	
Partition coefficient n-octanol/water (Log Pow)	1.78

Xylene (reaction mass of ethylbenzene and xylene)	
Bioconcentration factor (BCF REACH)	25.9 56 d

3-trimethoxysilylpropane-1-thiol (4420-74-0)	
Partition coefficient n-octanol/water (Log Pow)	-1.4

4-methyl-m-phenylene diisocyanate (584-84-9)	
Partition coefficient n-octanol/water (Log Pow)	3.43

hexamethylene-di-isocyanate (822-06-0)	
Partition coefficient n-octanol/water (Log Pow)	1.08

12.4. Mobility in soil

hexamethylene-di-isocyanate (822-06-0)	
Mobility in soil	5 – 286 Source: ECHA

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
European List of Waste (LoW, EC 2000/532) : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 1866	UN 1866	UN 1866
14.2. UN proper shipping name		
RESIN SOLUTION	RESIN SOLUTION	Resin solution
Transport document description		
UN 1866 RESIN SOLUTION, 3, II, (D/E)	UN 1866 RESIN SOLUTION, 3, II	UN 1866 Resin solution, 3, II
14.3. Transport hazard class(es)		
3	3	3
		
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-E	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 640C
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 2
Orange plates :

Tunnel restriction code (ADR) : D/E
EAC code : •3YE

Transport by sea

Limited quantities (IMDG) : 5 L
Packing instructions (IMDG) : P001
Special packing provisions (IMDG) : PP1
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A3
ERG code (IATA) : 3L

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	**Applicable on**	**Entry title or description**
3(a)	Primer PU ; ethyl acetate ; butanone ; 2-methoxy-1-methylethyl acetate ; n-butyl acetate ; Xylene (reaction mass of ethylbenzene and xylene)	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Primer PU ; ethyl acetate ; butanone ; 2-methoxy-1-methylethyl acetate ; n-butyl acetate ; 4-isocyanatosulphonyltoluene ; Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane ; Xylene (reaction mass of ethylbenzene and xylene) ; 3-trimethoxysilylpropane-1-thiol ; 4-methyl-m-phenylene diisocyanate ; hexamethylene-di-isocyanate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	4-isocyanatosulphonyltoluene ; 3-trimethoxysilylpropane-1-thiol ; 4-methyl-m-phenylene diisocyanate ; hexamethylene-di-isocyanate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
74.	4-methyl-m-phenylene diisocyanate ; hexamethylene-di-isocyanate	Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 790.1 g/l 86,83%

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Methylethylketone		78-93-3	2914 12 00	Category 3		Annex I

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstracts Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties 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.
H412	Harmful to aquatic life with long lasting effects.
EUH014	Reacts violently with water.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 2	H225	On basis of test data
Eye Irrit. 2	H319	Calculation method

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.