

Safety Data Sheet
MAPEFLEX PU 45 FT

Safety Data Sheet dated: 03/10/2025 - version 10



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

1.1. Product identifier

Mixture identification:

Trade name: MAPEFLEX PU 45 FT

Trade code: 906PG9990

UFI: XKA0-60EC-A00N-12Q5

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

Recommended use: Polyurethane-based adhesive

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: MAPEI S.p.A. - Via Cafiero, 22 - 20158 Milano

Tel. +(39)02376731 (office hours) - Fax: +39-02-37673.214 - www.mapei.it

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

Centro antiveneni, Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli - Tel. 081 5453333

Centro antiveneni, Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze - Tel. 055 7947819

Centro antiveneni, Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia - Tel. 0382 24444

Centro antiveneni, Azienda ospedaliera Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano - Tel. 02 66101029

Centro antiveneni, Azienda ospedaliera "Papa Giovanni XXIII", Tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo - Tel. 800 883300

Centro antiveneni Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma - Tel. 06 49978000

Centro antiveneni del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma - Tel. 06 3054343

Centro antiveneni, Azienda ospedaliera universitaria Riuniti, viale Luigi Pinto 1, Foggia - Tel. 800 183459

Centro antiveneni, Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma - Tel. 06 68593726

Centro antiveneni dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona - Tel. 800 011858

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Danger

Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

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

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

- EUH204

Contains isocyanates. May produce an allergic reaction.
- EUH211

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

Contains

diphenylmethanediisocyanate isomers and homologues

4-isocyanatesulphonyltoluene; tosyl isocyanate

diphenylmethane-4,4'-diisocyanate

Special provisions according to Annex XVII of REACH and subsequent amendments:

As from 24 August 2023 adequate training is required before industrial or professional use.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not Relevant

3.2. Mixtures

Mixture identification: MAPEFLEX PU 45 FT

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥1 - <2.5 %	N,N-dibenzyliden polyoxypropylene diamine	CAS:136855-71-5 EC:679-523-7	Skin Irrit. 2, H315	EXEMPT
≥0.6 - <1 %	calcium oxide	CAS:1305-78-8 EC:215-138-9	STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119475325-36-XXXX
≥0.6 - <1 %	4-isocyanatesulphonyltoluene; tosyl isocyanate	CAS:4083-64-1 EC:223-810-8 Index:615-012-00-7	Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334, EUH014 Specific Concentration Limits: C ≥ 5%: Skin Irrit. 2 H315 C ≥ 5%: Eye Irrit. 2 H319 C ≥ 5%: STOT SE 3 H335	01-2119980050-47-XXXX
≥0.5 - <0.6 %	diphenylmethanediisocyanate isomers and homologues	CAS:9016-87-9 EC:618-498-9	Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351 Specific Concentration Limits: 5% ≤ C < 100%: Skin Irrit. 2 H315 5% ≤ C < 100%: Eye Irrit. 2 H319 C ≥ 0.1%: Resp. Sens. 1,1A,1B H334 C ≥ 5%: STOT SE 3 H335	N.A.
≥0.1 - <0.2 %	free crystalline silica (Ø <10 µ)	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	EXEMPT
≥0.025 - <0.036 %	diphenylmethane-4,4'-diisocyanate	CAS:101-68-8 EC:202-966-0 Index:615-005-00-9	Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351 Specific Concentration Limits: 0.1% ≤ C < 100%: Resp. Sens. 1 H334 5% ≤ C < 100%: Skin Irrit. 2	01-2119457014-47-xxxx

			H315 5% ≤ C < 100%: Eye Irrit. 2 H319 5% ≤ C < 100%: STOT SE 3 H335	
≥0.01 - <0.016 %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	Flam. Liq. 3, H226; STOT SE 3, H336	01-2119475791-29-XXXX
≥0.005 - <0.01 %	phosphoric acid ... %	CAS:7664-38-2 EC:231-633-2 Index:015-011-00-6	Met. Corr. 1, H290; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Corr. 1B, H314	01-2119485924-24-xxxx
			Specific Concentration Limits: C ≥ 25%: Skin Corr. 1B H314 10% ≤ C < 25%: Skin Irrit. 2 H315 10% ≤ C < 25%: Eye Irrit. 2 H319	
≥0.0001 - <0.001 %	methanol	CAS:67-56-1 EC:200-659-6 Index:603-001-00-X	Flam. Liq. 2, H225; STOT SE 1, H370; Acute Tox. 3, H301; Acute Tox. 3, H331; Acute Tox. 3, H311	01-2119433307-44-XXXX
			Specific Concentration Limits: 3% ≤ C < 10%: STOT SE 2 H371 10% ≤ C < 100%: STOT SE 1 H370	
< 0.0001 %	o-(p-isocyanatobenzyl)phenyl isocyanate	CAS:5873-54-1 EC:227-534-9 Index:615-005-00-9	Carc. 2, H351; STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Acute Tox. 4, H332	01-2119480143-45-XXXX
			Specific Concentration Limits: 0.1% ≤ C < 100%: Resp. Sens. 1 H334 5% ≤ C < 100%: Skin Irrit. 2 H315 5% ≤ C < 100%: Eye Irrit. 2 H319 5% ≤ C < 100%: STOT SE 3 H335	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Not available

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Limit leakages with earth or sand.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.
Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
calcium oxide CAS: 1305-78-8	SUVA	SWITZERLAND	Long Term: 1 mg/m3; Short Term: 4 mg/m3 SSc
	NDS		Long Term: 2 mg/m3
	NDSCh		Long Term: 6 mg/m3
	ACGIH		Long Term: 2 mg/m3

URT irr

National SWEDEN	Long Term: 1 mg/m3; Short Term: 2.5 mg/m3 SWEDEN, Short-term value, 15 minutes average value
National FINLAND	Long Term: 2 mg/m3
National NORWAY	Long Term: 2 mg/m3 NORWAY, T
National FINLAND	Long Term: 2 mg/m3
National NORWAY	Long Term: 2 mg/m3; Short Term: 4 mg/m3
DFG GERMANY	Short Term: Ceiling - 2 mg/m3
ACGIH	Long Term: 2 mg/m3 upper respiratory tract irritation
National SWEDEN	Long Term: 1 mg/m3
National FRANCE	Long Term: 2 mg/m3
National SPAIN	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National GREECE	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National DENMARK	Long Term: 1 mg/m3
National FINLAND	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National GERMANY	Long Term: 1 mg/m3
National PORTUGAL	Long Term: 2 mg/m3
National NORWAY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National BELGIUM	Long Term: 2 mg/m3
NDS POLAND	Long Term: 2 mg/m3
NDS POLAND	Long Term: 1 mg/m3
NDSCh POLAND	Short Term: 6 mg/m3
NDSCh POLAND	Short Term: 4 mg/m3
CHE SWITZERLAND	Short Term: 2 mg/m3
NDS NETHERLANDS	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National CZECH REPUBLIC	Long Term: 1 mg/m3
National HUNGARY	Long Term: 1 mg/m3; Short Term: 4 mg/m3
Malaysi MALAYSIA a OEL	Long Term: 2 mg/m3
National ESTONIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National LATVIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National CZECH REPUBLIC	Short Term: Ceiling - 4 mg/m3
National SLOVAKIA	Long Term: 5 mg/m3
National SLOVENIA	Long Term: 5 mg/m3; Short Term: 5 mg/m3
National UNITED KINGDOM	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National UNITED KINGDOM	Long Term: 1 mg/m3; Short Term: 6 mg/m3
National UNITED KINGDOM	Long Term: 2 mg/m3; Short Term: 4 mg/m3
National BULGARIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National ROMANIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National LITHUANIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National CROATIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
National DENMARK	Long Term: 2 mg/m3
National PORTUGAL	Long Term: 2 mg/m3; Short Term: 4 mg/m3
National BELGIUM	Long Term: 1 mg/m3; Short Term: 4 mg/m3

	National SLOVENIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	EU	Long Term: 1 mg/m3; Short Term: 4 mg/m3 Respirable fraction
4-isocyanatesulphonyltoluene; tosyl isocyanate CAS: 4083-64-1	SUVA	Long Term: 0.02 mg/m3; Short Term: 0.02 mg/m3
diphenylmethanediisocyanate isomers and homologues CAS: 9016-87-9	ACGIH	Long Term: 0.05 ppm
	SUVA	Long Term: 0.02 mg/m3; Short Term: 0.02 mg/m3
	DFG GERMANY	Short Term: Ceiling - 0.05 mg/m3
	National GERMANY	Long Term: 0.05 mg/m3
	National SLOVENIA	Long Term: 0.05 mg/m3; Short Term: 0.05 mg/m3
free crystalline silica (Ø <10 µ) CAS: 14808-60-7	ACGIH	Long Term: 0.025 mg/m3 A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis
	National ARGENTINA	Long Term: 0.05 mg/m3
	National AUSTRALIA	Long Term: 0.1 mg/m3
	National AUSTRIA	Long Term: 0.15 mg/m3 A*
	National BELGIUM	Long Term: 0.1 mg/m3
	National BULGARIA	Long Term: 0.07 mg/m3
	National CROATIA	Long Term: 0.1 mg/m3
	National CZECH REPUBLIC	Long Term: 0.1 mg/m3
	National DENMARK	Long Term: 0.1 mg/m3; Short Term: 0.2 mg/m3 Respirabel fraktion, respirable fraction E: Stoffet har en EU-grænseværdi. K: Stoffet anses for at kunne være kræftfremkaldende.
	National DENMARK	Long Term: 0.3 mg/m3; Short Term: 0.6 mg/m3 Total dust
	National ESTONIA	Long Term: 0.1 mg/m3
	National FINLAND	Long Term: 0.05 mg/m3 Respirabel fraktion. Respirable fraction
	National FRANCE	Long Term: 0.1 mg/m3
	National HUNGARY	Long Term: 0.15 mg/m3
	National ITALY	Long Term: 0.1 mg/m3
	National LITHUANIA	Long Term: 0.1 mg/m3
	Malaysi a OEL MALAYSIA	Long Term: 0.1 mg/m3 0.1 mg/m3 TWA (respirable dust)
	NDS NETHERLAND S	Long Term: 0.075 mg/m3
	National NORWAY	Long Term: 0.3 mg/m3 Totalstøv (total dust); K: Kjemikalier som skal betraktes som kreftfremkallende.
	National NORWAY	Long Term: 0.05 mg/m3 Respirabelt støv (respirable dust); K: Kjemikalier som skal betraktes som kreftfremkallende. G: EU har fastsatt en bindende grenseverdi og/eller anmerkning av stoffet.
	ACGIH	Long Term: 0.025 mg/m3 (R), A2 - Pulm fibrosis, lung cancer
	EU	Long Term: 0.025 mg/m3 A2 (R) - Pulm fibrosis, lung cancer
	NDS POLAND	Long Term: 0.1 mg/m3
	National PORTUGAL	Long Term: 0.025 mg/m3
	National ROMANIA	Long Term: 0.1 mg/m3

diphenylmethane-4,4'-diisocyanate CAS: 101-68-8	National SLOVAKIA	Long Term: 0.1 mg/m ³ ; Short Term: 0.5 mg/m ³
	National SLOVENIA	Long Term: 0.1 mg/m ³
	National SPAIN	Long Term: 0.05 mg/m ³
	National SWEDEN	Long Term: 0.1 mg/m ³ Respirabel fraktion. Respirable fraction C: Ämnet är cancerframkallande. M: Medicinska kontroller.
	SUVA SWITZERLAND	Long Term: 0.15 mg/m ³ C1a, SSc, P
	National NORWAY	Long Term: 0.05 mg/m ³ - 0.005 ppm; Short Term: 0.01 ppm A 4
	SUVA	Long Term: 0.02 mg/m ³ ; Short Term: 0.02 mg/m ³
	National SWEDEN	Long Term: 0.03 mg/m ³ - 0.002 ppm; Short Term: Ceiling - 0.05 mg/m ³ - 0.005 ppm SWEDEN, Ceiling limit value
	NDS	Long Term: 0.03 mg/m ³
	NDSP	Long Term: 0.09 mg/m ³
	ACGIH	Long Term: 0.005 ppm Resp sens
	National POLAND	Long Term: 0.03 mg/m ³ ; Short Term: 0.09 mg/m ³
	National AUSTRIA	Long Term: 0.05 mg/m ³ - 0.005 ppm; Short Term: 0.1 mg/m ³ - 0.01 ppm
	DFG GERMANY	Short Term: Ceiling - 0.05 mg/m ³
	ACGIH	Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	National SWEDEN	Long Term: 0.03 mg/m ³ - 0.002 ppm
	National FRANCE	Long Term: 0.1 mg/m ³ - 0.01 ppm; Short Term: 0.2 mg/m ³ - 0.02 ppm
	National SPAIN	Long Term: 0.052 mg/m ³ - 0.005 ppm
	National DENMARK	Long Term: 0.05 mg/m ³ - 0.005 ppm
	National GERMANY	Long Term: 0.05 mg/m ³
2-methoxy-1-methylethyl acetate	National PORTUGAL	Long Term: 0.005 ppm
	National BELGIUM	Long Term: 0.052 mg/m ³ - 0.005 ppm
	NDS POLAND	Long Term: 0.03 mg/m ³
	NDSch POLAND	Short Term: 0.09 mg/m ³
	National CZECH REPUBLIC	Long Term: 0.05 mg/m ³
	National HUNGARY	Long Term: 0.05 mg/m ³ ; Short Term: 0.05 mg/m ³
	Malaysi a OEL MALAYSIA	Long Term: 0.051 mg/m ³ - 0.005 ppm
	National ESTONIA	Long Term: 0.05 mg/m ³ - 0.005 ppm; Short Term: 0.1 mg/m ³ - 0.01 ppm
	National CZECH REPUBLIC	Short Term: Ceiling - 0.1 mg/m ³
	National SLOVAKIA	Long Term: 0.002 mg/m ³
	National SLOVAKIA	Long Term: 0.03 mg/m ³
	National SLOVENIA	Long Term: 0.05 mg/m ³ ; Short Term: 0.05 mg/m ³
	National ROMANIA	Short Term: 0.15 mg/m ³
	National LITHUANIA	Long Term: 0.05 mg/m ³ - 0.005 ppm
	National LITHUANIA	Short Term: Ceiling - 0.1 mg/m ³ - 0.01 ppm
	ACGIH	Long Term: 0.005 ppm respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
	National NORWAY	Long Term: 0.05 mg/m ³ - 0.005 ppm; Short Term: 0.01 ppm
	National SLOVENIA	Long Term: 0.05 mg/m ³ - 0.005 ppm; Short Term: 0.05 mg/m ³ - 0.005 ppm
	EU	Long Term: 0.006 mg/m ³ ; Short Term: 0.012 mg/m ³ Skin; Dermal and respiratory sensitisation
	ACGIH	Long Term: 275 mg/m ³ - 50 ppm; Short Term: 550 mg/m ³ - 100 ppm Skin

SUVA		Long Term: 275 mg/m3 - 50 ppm
National SWEDEN		Long Term: 250 mg/m3 - 50 ppm; Short Term: 400 mg/m3 - 75 ppm SWEDEN, Short-term value, 15 minutes average value
National NORWAY		Long Term: 270 mg/m3 - 50 ppm H E
National FINLAND		Long Term: 270 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm FINLAND, hud
NDS		Long Term: 260 mg/m3
NDSCh		Long Term: 520 mg/m3
National GREECE		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National DENMARK		Long Term: 275 mg/m3 - 50 ppm
National BELGIUM		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National CZECH REPUBLIC		Short Term: Ceiling - 550 mg/m3
National SLOVAKIA		Short Term: Ceiling - 550 mg/m3
DFG GERMANY		Short Term: Ceiling - 270 mg/m3 - 50 ppm
National SWEDEN		Long Term: 275 mg/m3 - 50 ppm
National FRANCE		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National SPAIN		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National FINLAND		Long Term: 270 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National GERMANY		Long Term: 270 mg/m3 - 50 ppm
National PORTUGAL		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National NORWAY		Long Term: 270 mg/m3 - 50 ppm; Short Term: 337.5 mg/m3 - 75 ppm
NDS POLAND		Long Term: 260 mg/m3
NDSCh POLAND		Short Term: 520 mg/m3
CHE SWITZERLAN D		Short Term: 275 mg/m3 - 50 ppm
NDS NETHERLAND S		Long Term: 550 mg/m3
National CZECH REPUBLIC		Long Term: 270 mg/m3
National HUNGARY		Long Term: 275 mg/m3; Short Term: 550 mg/m3
National ESTONIA		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National LATVIA		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National SLOVAKIA		Long Term: 275 mg/m3 - 50 ppm
National SLOVENIA		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National UNITED KINGDOM		Long Term: 274 mg/m3 - 50 ppm; Short Term: 548 mg/m3 - 100 ppm
National BULGARIA		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National ROMANIA		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
TUR TURKEY		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
National LITHUANIA		Long Term: 250 mg/m3 - 50 ppm; Short Term: 400 mg/m3 - 75 ppm
National CROATIA		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm
EU		Long Term: 275 mg/m3 - 50 ppm; Short Term: 550 mg/m3 - 100 ppm Skin
phosphoric acid ... % CAS: 7664-38-2	DFG GERMANY	Short Term: Ceiling - 4 mg/m3
ACGIH		Long Term: 1 mg/m3; Short Term: 3 mg/m3 eye, skin and upper respiratory tract irritation
National SWEDEN		Long Term: 1 mg/m3
National FRANCE		Long Term: 1 mg/m3 - 0.2 ppm; Short Term: 2 mg/m3 - 0.5 ppm
National SPAIN		Long Term: 1 mg/m3; Short Term: 2 mg/m3

National GREECE	Long Term: 1 mg/m3; Short Term: 3 mg/m3
National DENMARK	Long Term: 1 mg/m3
National FINLAND	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National GERMANY	Long Term: 2 mg/m3
National PORTUGAL	Long Term: 1 mg/m3; Short Term: 3 mg/m3
National NORWAY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National BELGIUM	Long Term: 1 mg/m3; Short Term: 2 mg/m3
NDS POLAND	Long Term: 1 mg/m3
NDSch POLAND	Short Term: 2 mg/m3
CHE SWITZERLAND	Short Term: 2 mg/m3
NDS NETHERLANDS	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National CZECH REPUBLIC	Long Term: 1 mg/m3
National HUNGARY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
Malaysian OEL	Long Term: 1 mg/m3
National ESTONIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National LATVIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National CZECH REPUBLIC	Short Term: Ceiling - 2 mg/m3
National SLOVAKIA	Short Term: Ceiling - 2 mg/m3
National SLOVAKIA	Long Term: 1 mg/m3
National SLOVENIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National UNITED KINGDOM	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National BULGARIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National ROMANIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
TUR TURKEY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National LITHUANIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
National CROATIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
CHE SWITZERLAND	Short Term: 4 mg/m3
SUVA SWITZERLAND	Long Term: 2 mg/m3; Short Term: 4 mg/m3 SSc
EU	Long Term: 1 mg/m3; Short Term: 2 mg/m3
SUVA SWITZERLAND	Long Term: 260 mg/m3 - 200 ppm; Short Term: 520 mg/m3 - 400 ppm R, SSc, B
National SWEDEN	Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm
National FINLAND	Long Term: 270 mg/m3 - 200 ppm; Short Term: 330 mg/m3 - 250 ppm FINLAND, hud
National NORWAY	Long Term: 130 mg/m3 - 100 ppm; Short Term: 520 mg/m3 - 400 ppm NORWAY, H
NDS	Long Term: 100 mg/m3 - 200 ppm Skin
NDSch	Long Term: 300 mg/m3
National NORWAY	Long Term: 260 mg/m3
ACGIH	Long Term: 260 mg/m3 - 200 ppm Skin, BEI - Headache, eye dam, dizziness, nausea
DFG GERMANY	Long Term: 260 mg/m3 - 200 ppm
ACGIH	Long Term: 262 mg/m3 - 200 ppm
National SWEDEN	Long Term: 250 mg/m3 - 200 ppm
EU FRANCE	Long Term: 260 mg/m3 - 200 ppm

methanol
CAS: 67-56-1

National	Long Term: 260 mg/m ³ - 200 ppm 200 ppm PEL; 262 mg/m ³ PEL
National SPAIN	Long Term: 266 mg/m ³ - 200 ppm; Short Term: 325 mg/m ³ - 250 ppm
National GREECE	Long Term: 260 mg/m ³ - 200 ppm
National DENMARK	Long Term: 260 mg/m ³ - 200 ppm; Short Term: 330 mg/m ³ - 250 ppm
National FINLAND	Long Term: 270 mg/m ³ - 200 ppm
National GERMANY	Long Term: 270 mg/m ³ - 200 ppm; Short Term: 310 mg/m ³ - 250 ppm
National PORTUGAL	Long Term: 260 mg/m ³ - 200 ppm; Short Term: 162.5 mg/m ³ - 250 ppm
National NORWAY	Long Term: 130 mg/m ³ - 100 ppm; Short Term: 125 ppm
National BELGIUM	Long Term: 266 mg/m ³ - 200 ppm; Short Term: 333 mg/m ³ - 250 ppm
NDS POLAND	Long Term: 100 mg/m ³ - 200 ppm; Short Term: 300 mg/m ³ - 800 ppm
NDSch POLAND	Long Term: 260 mg/m ³
CHE SWITZERLAND	Long Term: 260 mg/m ³ - 200 ppm
NDS NETHERLANDS	Long Term: 133 mg/m ³ - 200 ppm
National CZECH REPUBLIC	Long Term: 250 mg/m ³ - 200 ppm
National HUNGARY	Long Term: 260 mg/m ³
Malaysia OEL	Long Term: 262 mg/m ³ ; Short Term: 350 mg/m ³
National ESTONIA	Long Term: 250 mg/m ³ - 200 ppm
National LATVIA	Short Term: Ceiling - 1000 mg/m ³ - 250 ppm
National CZECH REPUBLIC	Long Term: 260 mg/m ³ - 200 ppm
National SLOVAKIA	Short Term: 333 mg/m ³
National SLOVENIA	Long Term: 260 mg/m ³ - 200 ppm
National UNITED KINGDOM	Long Term: 266 mg/m ³ - 200 ppm
National BULGARIA	Long Term: 260 mg/m ³ - 200 ppm; Short Term: 100 mg/m ³ - 250 ppm
National ROMANIA	Long Term: 260 mg/m ³ - 200 ppm
TUR TURKEY	Long Term: 260 mg/m ³ - 200 ppm
National LITHUANIA	Long Term: 260 mg/m ³ - 200 ppm
National CROATIA	Long Term: 260 mg/m ³ ; Short Term: 328 mg/m ³
National SLOVENIA	Long Term: 260 mg/m ³ - 200 ppm; Short Term: 1040 mg/m ³ - 800 ppm
EU	Long Term: 260 mg/m ³ - 200 ppm Skin

o-(p-isocyanatobenzyl)phenyl NDS isocyanate
CAS: 5873-54-1

Long Term: 0.03 mg/m³

NDSch	Long Term: 0.09 mg/m ³
National GERMANY	Long Term: 0.05 mg/m ³
NDS POLAND	Long Term: 0.03 mg/m ³
NDSch POLAND	Short Term: 0.09 mg/m ³
National SLOVENIA	Long Term: 0.05 mg/m ³ ; Short Term: 0.05 mg/m ³
EU	Long Term: 0.006 mg/m ³ ; Short Term: 0.012 mg/m ³ Skin; Dermal and respiratory sensitisation

Biological limit values

methanol
CAS: 67-56-1

Biological Indicator: Methyl alcohol; Sampling Period: End of turn
Value: 15 mg/L; Medium: Urine
Remark: Background; Not Specific

Predicted No Effect Concentration (PNEC) values

calcium oxide
CAS: 1305-78-8

Exposure Route: Fresh Water; PNEC Limit: 0.49 mg/l

Exposure Route: Marine water; PNEC Limit: 0.32 mg/l
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3 mg/l
Exposure Route: Soil; PNEC Limit: 1080 mg/kg
Exposure Route: Soil; PNEC Limit: 816 mg/l
Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

diphenylmethane-4,4'-
diisocyanate
CAS: 101-68-8

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l
Exposure Route: Soil; PNEC Limit: 1 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l
Exposure Route: Intermittent release; PNEC Limit: 10 mg/l

2-methoxy-1-methylethyl
acetate
CAS: 108-65-6

Exposure Route: Marine water; PNEC Limit: 0.0635 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 3.29 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 0.329 mg/kg
Exposure Route: Intermittent release; PNEC Limit: 6.35 mg/l
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l
Exposure Route: Soil; PNEC Limit: 0.29 mg/kg
Exposure Route: Fresh Water; PNEC Limit: 154 mg/l

methanol
CAS: 67-56-1

Exposure Route: Marine water; PNEC Limit: 15.4 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 570.4 mg/kg
Exposure Route: Soil; PNEC Limit: 23.5 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l
Exposure Route: Intermittent release; PNEC Limit: 1540 mg/l
Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

o-(p-
isocyanatobenzyl)phenyl
isocyanate
CAS: 5873-54-1

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l
Exposure Route: Soil; PNEC Limit: 1 mg/kg
Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

Derived No Effect Level (DNEL) values

calcium oxide
CAS: 1305-78-8

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 4 mg/m³; Consumer: 4 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 1 mg/m³; Consumer: 1 mg/m³

diphenylmethane-4,4'-
diisocyanate
CAS: 101-68-8

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Industry: 50 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 0.1 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 0.1 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 0.05 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 0.05 mg/m³

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Consumer: 25 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Consumer: 0.05 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 20 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Consumer: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Consumer: 0.025 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Consumer: 0.025 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects
Worker Industry: 28.7 mg/cm2; Consumer: 17.2 mg/cm2

2-methoxy-1-methylethyl acetate
CAS: 108-65-6
Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 796 mg/kg; Consumer: 320 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 275 mg/m3; Consumer: 33 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 36 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 550 mg/m3

phosphoric acid ... %
CAS: 7664-38-2
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 2 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 1 mg/m3; Consumer: 0.36 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 10.7 mg/m3; Consumer: 4.57 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Consumer: 0.1 mg/kg

methanol
CAS: 67-56-1
Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Industry: 40 mg/kg; Consumer: 8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 260 mg/m3; Consumer: 50 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 260 mg/m3; Consumer: 50 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 40 mg/kg; Consumer: 8 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Industry: 260 mg/m3; Consumer: 50 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 260 mg/m3; Consumer: 50 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 8 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 8 mg/kg

o-(p-isocyanatobenzyl)phenyl isocyanate
CAS: 5873-54-1
Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Worker Industry: 50 mg/kg; Consumer: 25 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Industry: 0.1 mg/m3; Consumer: 0.05 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects
Worker Industry: 28.7 mg/cm2; Consumer: 17.2 mg/cm2

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Industry: 0.1 mg/m3; Consumer: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Industry: 0.05 mg/m3; Consumer: 0.025 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Industry: 0.05 mg/m³; Consumer: 0.025 mg/m³

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects
Consumer: 20 mg/kg

8.2. Exposure controls

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Hygienic and Technical measures

Not available

Appropriate engineering controls:

Not available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: paste

Colour: various

Odour: Characteristic

Odour threshold: Not available

Melting point/freezing point: Not available

Boiling point or initial boiling point and boiling range: Not available

Flammability: N.A.

Lower and upper explosion limit: Lower and upper explosion limit: Not available

Flash point: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: Not Relevant

Viscosity: 1,300,000.00 cPs

Kinematic viscosity: Not available

Solubility in water: Insoluble

Solubility in oil: partly soluble

Partition coefficient n-octanol/water (log value): Not available

Vapour pressure: Not available

Density and/or relative density: 1.35 g/cm³

Relative vapour density: Not available

Particle characteristics:

Particle size: Not available

9.2. Other information

Miscibility: Not available

Conductivity: Not available

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

- 10.2. Chemical stability

Stable under normal conditions
- 10.3. Possibility of hazardous reactions

None.
- 10.4. Conditions to avoid

Stable under normal conditions.
- 10.5. Incompatible materials

None in particular.
- 10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified
	Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Resp. Sens. 1(H334)
e) germ cell mutagenicity	Not classified
	Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified
	Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

calcium oxide	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
		LD50 Skin Rat > 2500 mg/kg	
4-isocyanatesulphonyltoluene; tosyl isocyanate	a) acute toxicity	LC50 Inhalation Rat > 640 ppm 1h	
		LD50 Oral Rat = 2234 mg/kg	
diphenylmethanediisocyanate isomers and homologues	a) acute toxicity	LD50 Oral Rat > 10000 mg/kg	
		LD50 Skin Rabbit > 9400 mg/kg	
		LD50 Skin Rabbit > 9.4 g/kg	
		LD50 Oral Rat = 49 g/kg	
	g) reproductive toxicity	NOAEL Inhalation Rat = 12 mg/m3	
free crystalline silica (Ø <10 µ)	a) acute toxicity	LD50 Oral Rat = 500 mg/kg	
diphenylmethane-4,4'-diisocyanate	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
	f) carcinogenicity	Carcinogenicity Inhalation Rat = 6 mg/m3	2 y

g) reproductive toxicity NOAEL Inhalation Rat = 12 mg/m3 20 d

2-methoxy-1-methylethyl acetate a) acute toxicity LD50 Oral Rat > 5000 mg/kg
LD50 Skin Rabbit > 5000 mg/kg
e) germ cell mutagenicity NOAEL Inhalation Rat = 1000 ppm
g) reproductive toxicity NOAEL Inhalation Rat = 500 ppm

methanol a) acute toxicity LD50 Skin Rabbit > 17100 mg/kg

o-(p-isocyanatobenzyl)phenyl isocyanate a) acute toxicity LD50 Skin Rabbit > 9400 mg/kg
LD50 Oral Rat > 2000 mg/kg
e) germ cell mutagenicity NOAEL Inhalation Rat = 12 mg/m3

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
calcium oxide	CAS: 1305-78-8 - EINECS: 215-138-9	a) Aquatic acute toxicity : LC50 Fish = 457 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 49.1 mg/L 48 b) Aquatic chronic toxicity : NOEC Daphnia = 32 mg/L - 14 d a) Aquatic acute toxicity : LC50 Fish = 50.6 mg/L 96 a) Aquatic acute toxicity : LC50 Daphnia = 158 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 184.57 mg/L 72 b) Aquatic chronic toxicity : NOEC Algae = 48 mg/L 72 a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID
diphenylmethanediisocyanate isomers and homologues	CAS: 9016-87-9 - EINECS: 618-498-9	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24 b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72 c) Bacteria toxicity : EC50 > 100 mg/L 3 d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d e) Plant toxicity : NOEC > 1000 mg/kg - 14 d
diphenylmethane-4,4'-diisocyanate	CAS: 101-68-8 - EINECS: 202-966-0 - INDEX: 615-005-00-9	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24 b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72 c) Bacteria toxicity : EC50 > 100 mg/L 3

		d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d
		e) Plant toxicity : NOEC > 1000 mg/kg - 14 d
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity : LC50 Fish = 130 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia >= 100 mg/L 48h
		b) Aquatic chronic toxicity : NOEC Fish = 47.5 mg/L - 14 d
		b) Aquatic chronic toxicity : NOEC Daphnia >= 100 mg/L - 21 d
		b) Aquatic chronic toxicity : NOEC Algae >= 1000 mg/L
phosphoric acid ... %	CAS: 7664-38-2 - EINECS: 231-633-2 - INDEX: 015-011-00-6	a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h
methanol	CAS: 67-56-1 - EINECS: 200-659-6 - INDEX: 603-001-00-X	a) Aquatic acute toxicity : LC50 Fish 15400 mg/L 96h
		b) Aquatic chronic toxicity : NOEC Fish = 450 mg/L
o-(p-isocyanatobenzyl)phenyl isocyanate	CAS: 5873-54-1 - EINECS: 227-534-9 - INDEX: 615-005-00-9	a) Aquatic acute toxicity : LC50 Fish > 1000 mg/L 96
		a) Aquatic acute toxicity : EC50 Daphnia > 1000 mg/L 24
		b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d
		a) Aquatic acute toxicity : EC50 Algae > 1640 mg/L 72
		c) Bacteria toxicity : EC50 > 100 mg/L 3
		d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d
		e) Plant toxicity : NOEC > 1000 mg/kg - 14 d

12.2. Persistence and degradability

Component	Persistence/Degradability:
methanol	Readily biodegradable

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

A waste code (EWC) according to European List of Waste (LoW) cannot be specified, due to dependence on the usage. Contact and send to an authorized waste disposal service.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

Not Applicable

14.2. UN proper shipping name

Not Applicable

14.3. Transport hazard class(es)

Not Applicable

14.4. Packing group

Not Applicable

14.5. Environmental hazards

Not Applicable

14.6. Special precautions for user

Not Applicable

Road and Rail (ADR-RID):

ADR-Hazard identification number: NA

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) n. 2020/878

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

None

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 40, 69, 74, 75

SVHC Substances:

SVHC substances not present in a concentration $\geq 0.1\%$ (w/w)

National regulations

Lagerklasse (TRGS-510): 12 - Non-combustible liquids, that cannot be assigned to any of the aforementioned LGK

German Water Hazard Class.

Class 1: slightly hazardous for water.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
EUH014	Reacts violently with water.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
H351	Suspected of causing cancer if inhaled.
H370	Causes damage to organs.
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

Code	Hazard class and hazard category	Description
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1

3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1
3.4.1/1-1A-1B	Resp. Sens. 1,1A,1B	Respiratory Sensitisation, Category 1,1A,1B
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.6/2	Carc. 2	Carcinogenicity, Category 2
3.8/1	STOT SE 1	Specific target organ toxicity — single exposure, Category 1
3.8/2	STOT SE 2	Specific target organ toxicity — single exposure, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008 Classification procedure

Resp. Sens. 1, H334 Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: KAFH
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information