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

1.1. Product identifier

Mixture identification:

Trade name: ULTRABOND P 980 1 K

Trade code: 902464

UFI: EV31-E0RQ-000P-7PME

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 U.K. Ltd - Mapei House Steel Park Road
Halesowen - West Midlands B62 8HD

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960 - www.mapei.co.uk (office hour 8:30-17:30)

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)333 333 9962

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

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

Eye Dam. 1 Causes serious eye damage.

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

H318 Causes serious eye damage.

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

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves/clothing and eye/face protection.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

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.

Contains

calcium oxide

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: ULTRABOND P 980 1 K

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

Qty	Name	Ident. Numb.	Classification
≥5 - <10 %	calcium oxide	CAS:1305-78-8 EC:215-138-9	STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318
≥5 - <10 %	Benzene, mono-C10-13-alkyl derivs., distn. residues	CAS:84961-70-6 EC:284-660-7	Asp. Tox. 1, H304
≥0.3 - <0.5 %	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 H315 5% ≤ C < 100%: Eye Irrit. 2 H319 5% ≤ C < 100%: STOT SE 3 H335
≥0.016 - <0.02 %	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 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 %	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 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 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
< 0,0001 %	2,2'-methylenediphenyl diisocyanate	CAS:2536-05-2 EC:219-799-4 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 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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

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

Eye irritation

Eye damages

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)

calcium oxide

CAS: 1305-78-8	ACGIH		Long Term: 2 mg/m3 Notes: URT irr
			Long Term: 2 mg/m3 Notes: upper respiratory tract irritation
	EU		Long Term: 1 mg/m3; Short Term: 4 mg/m3 Notes: Respirable fraction
	Malaysia OEL	MALAYSIA	Long Term: 2 mg/m3
	CHE	SWITZERLAND	Short Term: 2 mg/m3
	DFG	GERMANY	Short Term: Ceiling - 2 mg/m3
	National	BELGIUM	Long Term: 2 mg/m3
			Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	BULGARIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	CZECH REPUBLIC	Long Term: 1 mg/m3
			Short Term: Ceiling - 4 mg/m3
	National	GERMANY	Long Term: 1 mg/m3
	National	DENMARK	Long Term: 1 mg/m3
			Long Term: 2 mg/m3
	National	SPAIN	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	ESTONIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	FINLAND	Long Term: 2 mg/m3
			Long Term: 2 mg/m3
			Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	FRANCE	Long Term: 2 mg/m3
	National	UNITED KINGDOM	Long Term: 1 mg/m3; Short Term: 4 mg/m3
			Long Term: 1 mg/m3; Short Term: 6 mg/m3

			Long Term: 2 mg/m3; Short Term: 4 mg/m3
	National	GREECE	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	CROATIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	HUNGARY	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	LITHUANIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	LATVIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	NORWAY	Long Term: 2 mg/m3 Notes: NORWAY, T
			Long Term: 2 mg/m3; Short Term: 4 mg/m3
			Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	PORTUGAL	Long Term: 2 mg/m3
			Long Term: 2 mg/m3; Short Term: 4 mg/m3
	National	ROMANIA	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	SLOVAKIA	Long Term: 5 mg/m3
	National	SLOVENIA	Long Term: 5 mg/m3; Short Term: 5 mg/m3
			Long Term: 1 mg/m3; Short Term: 4 mg/m3
	National	SWEDEN	Long Term: 1 mg/m3; Short Term: 2,5 mg/m3 Notes: SWEDEN, Short-term value, 15 minutes average value
			Long Term: 1 mg/m3
	SUVA	SWITZERLAND	Long Term: 1 mg/m3; Short Term: 4 mg/m3 Notes: SSc
	NDS		Long Term: 2 mg/m3
	NDS	NETHERLANDS	Long Term: 1 mg/m3; Short Term: 4 mg/m3
	NDS	POLAND	Long Term: 2 mg/m3
			Long Term: 1 mg/m3
	NDSCh		Long Term: 6 mg/m3
	NDSCh	POLAND	Short Term: 6 mg/m3
			Short Term: 4 mg/m3
diphenylmethane-4,4'-diisocyanate			
CAS: 101-68-8	ACGIH		Long Term: 0,005 ppm Notes: Resp sens
			Long Term: 0,005 ppm Notes: respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))
			Long Term: 0,005 ppm
	EU		Long Term: 0,006 mg/m3; Short Term: 0,012 mg/m3
	Malaysia OEL	MALAYSIA	Long Term: 0,051 mg/m3 - 0,005 ppm
	DFG	GERMANY	Short Term: Ceiling - 0,05 mg/m3
	National	AUSTRIA	Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,1 mg/m3 - 0,01 ppm
	National	BELGIUM	Long Term: 0,052 mg/m3 - 0,005 ppm
	National	CZECH REPUBLIC	Long Term: 0,03 mg/m3; Short Term: 0,06 mg/m3
	National	GERMANY	Long Term: 0,05 mg/m3
	National	DENMARK	Long Term: 0,05 mg/m3 - 0,005 ppm
	National	SPAIN	Long Term: 0,052 mg/m3 - 0,005 ppm
	National	ESTONIA	Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,1 mg/m3 - 0,01 ppm
	National	FRANCE	Long Term: 0,1 mg/m3 - 0,01 ppm; Short Term: 0,2 mg/m3 - 0,02 ppm
	National	HUNGARY	Long Term: 0,05 mg/m3; Short Term: 0,05 mg/m3
	National	LITHUANIA	Long Term: 0,05 mg/m3 - 0,005 ppm
			Short Term: Ceiling - 0,1 mg/m3 - 0,01 ppm
	National	NORWAY	Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm Notes: A 4

			Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,01 ppm
	National	POLAND	Long Term: 0,03 mg/m3; Short Term: 0,09 mg/m3
	National	PORTUGAL	Long Term: 0,005 ppm
	National	ROMANIA	Short Term: 0,15 mg/m3
	National	SLOVAKIA	Long Term: 0,002 mg/m3
			Long Term: 0,03 mg/m3
	National	SLOVENIA	Long Term: 0,05 mg/m3; Short Term: 0,05 mg/m3
			Long Term: 0,05 mg/m3 - 0,005 ppm; Short Term: 0,05 mg/m3 - 0,005 ppm
	National	SWEDEN	Long Term: 0,03 mg/m3 - 0,002 ppm; Short Term: Ceiling - 0,05 mg/m3 - 0,005 ppm Notes: SWEDEN, Ceiling limit value
			Long Term: 0,03 mg/m3 - 0,002 ppm
	SUVA		Long Term: 0,02 mg/m3; Short Term: 0,02 mg/m3
	NDS		Long Term: 0,03 mg/m3
	NDS	POLAND	Long Term: 0,03 mg/m3
	NDSCh	POLAND	Short Term: 0,09 mg/m3
	NDSP		Long Term: 0,09 mg/m3
phosphoric acid ... %			
CAS: 7664-38-2	ACGIH		Long Term: 1 mg/m3; Short Term: 3 mg/m3 Notes: eye, skin and upper respiratory tract irritation
	EU		Long Term: 1 mg/m3; Short Term: 2 mg/m3
	Malaysia OEL	MALAYSIA	Long Term: 1 mg/m3
	CHE	SWITZERLAND	Short Term: 2 mg/m3
			Short Term: 4 mg/m3
	DFG	GERMANY	Short Term: Ceiling - 4 mg/m3
	National	BELGIUM	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	BULGARIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	CZECH REPUBLIC	Long Term: 1 mg/m3
			Short Term: Ceiling - 2 mg/m3
	National	GERMANY	Long Term: 2 mg/m3
	National	DENMARK	Long Term: 1 mg/m3
	National	SPAIN	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	ESTONIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	FINLAND	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	FRANCE	Long Term: 1 mg/m3 - 0,2 ppm; Short Term: 2 mg/m3 - 0,5 ppm
	National	UNITED KINGDOM	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	GREECE	Long Term: 1 mg/m3; Short Term: 3 mg/m3
	National	CROATIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	HUNGARY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	LITHUANIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	LATVIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	NORWAY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	PORTUGAL	Long Term: 1 mg/m3; Short Term: 3 mg/m3
	National	ROMANIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	SLOVAKIA	Short Term: Ceiling - 2 mg/m3
			Long Term: 1 mg/m3
	National	SLOVENIA	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	National	SWEDEN	Long Term: 1 mg/m3
	SUVA	SWITZERLAND	Long Term: 2 mg/m3; Short Term: 4 mg/m3 Notes: SSc

	NDS	NETHERLANDS	Long Term: 1 mg/m3; Short Term: 2 mg/m3
	NDS	POLAND	Long Term: 1 mg/m3
	NDSCh	POLAND	Short Term: 2 mg/m3
	TUR	TURKEY	Long Term: 1 mg/m3; Short Term: 2 mg/m3
methanol			
CAS: 67-56-1	ACGIH		Long Term: 260 mg/m3 - 200 ppm Notes: Skin, BEI - Headache, eye dam, dizziness, nausea
			Long Term: 262 mg/m3 - 200 ppm
	EU		Long Term: 260 mg/m3 - 200 ppm Notes: Skin
	EU	FRANCE	Long Term: 260 mg/m3 - 200 ppm
	Malaysia OEL	MALAYSIA	Long Term: 262 mg/m3; Short Term: 350 mg/m3
	CHE	SWITZERLAND	Long Term: 260 mg/m3 - 200 ppm
	DFG	GERMANY	Long Term: 260 mg/m3 - 200 ppm
	National		Long Term: 260 mg/m3 - 200 ppm Notes: 200 ppm PEL;262 mg/m3 PEL
	National	BELGIUM	Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm
	National	BULGARIA	Long Term: 260 mg/m3 - 200 ppm; Short Term: 100 mg/m3 - 250 ppm
	National	CZECH REPUBLIC	Long Term: 250 mg/m3 - 180 ppm; Short Term: 1000 mg/m3 - 751 ppm
			Long Term: 260 mg/m3 - 200 ppm
	National	GERMANY	Long Term: 270 mg/m3 - 200 ppm; Short Term: 310 mg/m3 - 250 ppm
	National	DENMARK	Long Term: 260 mg/m3 - 200 ppm; Short Term: 330 mg/m3 - 250 ppm
	National	SPAIN	Long Term: 266 mg/m3 - 200 ppm; Short Term: 325 mg/m3 - 250 ppm
	National	ESTONIA	Long Term: 250 mg/m3 - 200 ppm
	National	FINLAND	Long Term: 270 mg/m3 - 200 ppm; Short Term: 330 mg/m3 - 250 ppm Notes: FINLAND, hud
			Long Term: 270 mg/m3 - 200 ppm
	National	UNITED KINGDOM	Long Term: 266 mg/m3 - 200 ppm
	National	GREECE	Long Term: 260 mg/m3 - 200 ppm
	National	CROATIA	Long Term: 260 mg/m3; Short Term: 328 mg/m3
	National	HUNGARY	Long Term: 260 mg/m3
	National	LITHUANIA	Long Term: 260 mg/m3 - 200 ppm
	National	LATVIA	Short Term: Ceiling - 1000 mg/m3 - 250 ppm
	National	NORWAY	Long Term: 130 mg/m3 - 100 ppm; Short Term: 520 mg/m3 - 400 ppm Notes: NORWAY, H
			Long Term: 260 mg/m3
			Long Term: 130 mg/m3 - 100 ppm; Short Term: 125 ppm
	National	PORTUGAL	Long Term: 260 mg/m3 - 200 ppm; Short Term: 162,5 mg/m3 - 250 ppm
	National	ROMANIA	Long Term: 260 mg/m3 - 200 ppm
	National	SLOVAKIA	Short Term: 333 mg/m3
	National	SLOVENIA	Long Term: 260 mg/m3 - 200 ppm
			Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm
	National	SWEDEN	Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm
			Long Term: 250 mg/m3 - 200 ppm
	SUVA	SWITZERLAND	Long Term: 260 mg/m3 - 200 ppm; Short Term: 520 mg/m3 - 400 ppm Notes: R, SSc, B
	NDS		Long Term: 100 mg/m3 - 200 ppm Notes: Skin

	NDS	NETHERLANDS	Long Term: 133 mg/m3 - 200 ppm
	NDS	POLAND	Long Term: 100 mg/m3 - 200 ppm; Short Term: 300 mg/m3 - 800 ppm
	NDSCh		Long Term: 300 mg/m3
	NDSCh	POLAND	Long Term: 260 mg/m3
	TUR	TURKEY	Long Term: 260 mg/m3 - 200 ppm

o-(p-isocyanatobenzyl)phenyl isocyanate

CAS: 5873-54-1	EU		Long Term: 0,006 mg/m3; Short Term: 0,012 mg/m3 Notes: Skin; Dermal and respiratory sensitisation
	National	GERMANY	Long Term: 0,05 mg/m3
	National	SLOVENIA	Long Term: 0,05 mg/m3; Short Term: 0,05 mg/m3
	NDS		Long Term: 0,03 mg/m3
	NDS	POLAND	Long Term: 0,03 mg/m3
	NDSCh		Long Term: 0,09 mg/m3
	NDSCh	POLAND	Short Term: 0,09 mg/m3

2,2'-methylenediphenyl diisocyanate

CAS: 2536-05-2	ACGIH		Long Term: 0,051 mg/m3
	EU		Long Term: 0,006 mg/m3; Short Term: 0,012 mg/m3 Notes: Skin; Dermal and respiratory sensitisation
	National	GERMANY	Long Term: 0,05 mg/m3
	National	SLOVENIA	Long Term: 0,05 mg/m3; Short Term: 0,05 mg/m3
	NDS	POLAND	Long Term: 0,03 mg/m3
	NDSCh	POLAND	Short Term: 0,09 mg/m3

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

Benzene, mono-C10-13-alkyl derivs., distn. residues

CAS: 84961-70-6	Exposure Route: Fresh Water; PNEC Limit: 0,000075 mg/l
	Exposure Route: Marine water; PNEC Limit: 7,5 mg/l
	Exposure Route: Intermittent release; PNEC Limit: 0,001 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 1761 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 1761 mg/l
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 2 mg/l

diphenylmethane-4,4'-diisocyanate

CAS: 101-68-8	Exposure Route: Fresh Water; PNEC Limit: 1 mg/l
	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

methanol

CAS: 67-56-1	Exposure Route: Fresh Water; PNEC Limit: 154 mg/l
	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

o-(p-isocyanatobenzyl)phenyl isocyanate

CAS: 5873-54-1 Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

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

2,2'-methylenediphenyl diisocyanate

CAS: 2536-05-2 Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

Exposure Route: Marine water; PNEC Limit: 0,1 mg/kg

Exposure Route: Soil; PNEC Limit: 1 mg/l

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

Benzene, mono-C10-13-alkyl derivs., distn. residues

CAS: 84961-70-6 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Industry: 96 mg/kg

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

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

2,2'-methylenediphenyl diisocyanate

CAS: 2536-05-2

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: Long Term, systemic effects
Consumer: 20 mg/kg

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use contact lenses.

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 >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

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

Gloves characteristics:

Appropriate gloves thickness and breakthrough time may differ depending on the specific use conditions. Make sure to use protective gloves adequate to the conditions of use.

CEN standard(s) information:

Suitable protective gloves must comply with the appropriate EN 374 standard(s)

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
Colour:	Beige
Odour:	Characteristic
Odour threshold:	No data available
pH:	Not Relevant
Kinematic viscosity:	No data available
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flash point:	No data available
Lower and upper explosion limit:	No data available
Relative vapour density:	No data available
Vapour pressure:	No data available
Density and/or relative density:	1.45 g/cm3
Solubility in water:	Insoluble
Solubility in oil:	partly soluble
Partition coefficient n-octanol/water (log value):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability:	No data available
Volatile Organic compounds - VOCs =	No data available

Particle characteristics:

Particle size: No data available

9.2. Other information

Evaporation rate: No data available

Viscosity: 85,000.00 cPs

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	The product is classified: Eye Dam. 1(H318)
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

CAS: 1305-78-8	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg
		LD50 Skin Rat > 2500 mg/kg

Benzene, mono-C10-13-alkyl derivs., distn. residues

CAS: 84961-70-6	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg
		LD50 Skin Rat > 2000 mg/kg

diphenylmethane-4,4'-diisocyanate

CAS: 101-68-8	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg
	f) carcinogenicity	Carcinogenicity Inhalation Rat = 6, mg/m3 Notes: 2 y

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

methanol

CAS: 67-56-1	a) acute toxicity	LD50 Skin Rabbit > 17100, mg/kg

o-(p-isocyanatobenzyl)phenyl isocyanate

CAS: 5873-54-1	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

2,2'-methylenediphenyl diisocyanate

CAS: 2536-05-2	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg
		LC50 Inhalation Vapour Rat = 527, mg/m3 4h
		LD50 Skin Rabbit > 9400 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 >= 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

calcium oxide

CAS: 1305-78-8	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

Benzene, mono-C10-13-alkyl derivs., distn. residues

CAS: 84961-70-6	a) Aquatic acute toxicity: EC50 Algae > 10 mg/L 72h
	a) Aquatic acute toxicity: LC50 Fish > 10000 mg/L 96h
	a) Aquatic acute toxicity: EC50 Daphnia > 1,4 mg/L 48h

diphenylmethane-4,4'-diisocyanate

CAS: 101-68-8	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

phosphoric acid ... %

CAS: 7664-38-2	a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48h

methanol

CAS: 67-56-1	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 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

2,2'-methylenediphenyl diisocyanate

CAS: 2536-05-2 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

e) Plant toxicity: NOEC > 1000 mg/kg - 14 d

d) Terrestrial toxicity: NOEC > 1000 mg/kg - 14 d

12.2. Persistence and degradability

methanol

CAS: 67-56-1 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 or vPvB substances present in concentration >= 0.1%

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

N.A.

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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):

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)

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Regulation (EU) n. 2024/2564 (ATP 22 CLP)

Regulation (EU) n. 2024/2865

Regulation (EU) n. 2025/1222 (ATP 23 CLP)

Provisions related to directive EU 2012/18 (Seveso III):

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: 56, 74, 75

SVHC Substances:

SVHC substances not present in a concentration ≥ 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
H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H351	Suspected of causing cancer.
H370	Causes damage to organs.
H371	May cause damage to organs.
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
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
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
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
3.4.2/1	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
3.9/2	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
Eye Dam. 1, H318	Calculation method
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: Keep Away From Heat
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:

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- 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