Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Revision date: 12/12/2022 Supersedes version of: 18/06/2021 Version: 14.0

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

1.1. Product identifier

Product form : Mixture
Trade name : FIX PU 25

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

IPC

10 Quai Malbert, 29200, BREST, FRANCE. Tel.: +33 (0)2 98 43 45 44. Fax: +33

(0)2 98 44 22 53 ipc@groupe-ipc.com

1.4. Emergency telephone number

Emergency number : + 32 56 62 70 51

Only available during office hours.

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Respiratory sensitisation, Category 1 H334
Warning! Hazardous respirable dust may be formed when used. Do not EUH212

breathe dust.

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

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS08

CLP Signal word : Danger

Contains : Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate, 4,4'-methylenediphenyl

diisocyanate

Hazard statements (CLP) : H334 - May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Precautionary statements (CLP) : P261 - Avoid breathing vapours.

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

breathing.

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

doctor.

EUH-statements : EUH212 - Warning! Hazardous respirable dust may be formed when used. Do

not breathe dust.

Extra phrases : As from 24 August 2023 adequate training is required before industrial or

professional use.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%. This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1%

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of ethylbenzene and xylene	EC-No.: 905-588-0 REACH-no: 01- 2119488216-32	≥ 2,5 - < 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation:vapour), H332 (ATE=6,35 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
Titanium dioxide (Note W)(Note 10)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006- 00-2 REACH-no: 01- 2119489379-17	< 5	Carc. 2, H351
Hydrocarbons, C11-C14, n-alkanes, iso- alkanes, cyclic, <2% aromatic substance with a Community workplace exposure limit	EC-No.: 926-141-6 REACH-no: 01- 2119456620-43	≥ 1 - < 10	Asp. Tox. 1, H304 EUH066
chromium oxide substance with a Community workplace exposure limit	CAS-No.: 1308-38-9 EC-No.: 215-160-9 REACH-no: 01- 2119433951-39	≥ 2,5 - < 5	Not classified
calcium oxide substance with a Community workplace exposure limit	CAS-No.: 1305-78-8 EC-No.: 215-138-9 REACH-no: 01- 2119475325-36	< 3	Skin Corr. 1C, H314 Eye Dam. 1, H318 EUH071
4,4'-methylenediphenyl diisocyanate substance with a Community workplace exposure limit (Note C)(Note 2)	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005- 00-9 REACH-no: 01- 2119457014-47	0,1 - <1	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 (ATE=0,49 mg/l/4h) STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS-No.: 1065336-91-5 EC-No.: 915-687-0 REACH-no: 01- 2119491304-40	< 0,1	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)

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pecific concentration limits:			
Name Product identifier 5		Specific concentration limits	
calcium oxide	CAS-No.: 1305-78-8 EC-No.: 215-138-9 REACH-no: 01- 2119475325-36	($1 \le C < 3$) Eye Irrit. 2, H319 ($3 \le C \le 100$) Eye Dam. 1, H318 ($5 \le C < 100$) STOT SE 3, H335 ($10 \le C \le 50$) Skin Irrit. 2, H315 ($50 \le C \le 100$) EUH071 ($50 \le C \le 100$) Skin Corr. 1C, H314	
4,4'-methylenediphenyl diisocyanate	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005- 00-9 REACH-no: 01- 2119457014-47	($0.1 \le C < 100$) Resp. Sens. 1, H334 ($5 \le C < 100$) STOT SE 3, H335 ($5 \le C < 100$) Skin Irrit. 2, H315 ($5 \le C < 100$) Eye Irrit. 2, H319	

Note 10 : The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 μ m.

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

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

Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move to fresh air. In all cases of doubt, or when symptoms persist, seek medica attention.
First-aid measures after skin contact	: After contact with skin, wash immediately and thoroughly with water and soap. Take off contaminated clothing and wash it before reuse. If symptoms persist call a doctor.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation	: May cause sensitization by inhalation. Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Causes mild skin irritation. irritation (itching, redness, blistering). Dry skin. Swelling of the skin.
Symptoms/effects after eye contact	 Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Swallowing of this material presents health hazard. Ingestion may cause nausea, vomiting and diarrhea. Abdominal pain.
Chronic symptoms	: May cause cancer.

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

11. Toxicological information.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. extinguishing powder.

5.2. Special hazards arising from the substance or mixture

fire

Hazardous decomposition products in case of : Carbon dioxide. Carbon monoxide. Isocyanates. Hydrogen cyanide. Nitrogen

oxides.

5.3. Advice for firefighters

Protection during firefighting

: Wear self-contained breathing apparatus and protective suit (see section 8).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ensure adequate ventilation, especially in confined areas.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Keep in suitable, closed containers for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling

Hygiene measures

- Do not breathe vapour or spray.
- Obtain special instructions before use. Wear protective clothing.
- Do not eat, drink or smoke when using this product. Avoid all eye and skin contact and do not breathe vapour and mist. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible products : Strong acids, strong bases and strong oxidants. Amines.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

alcium oxide (1305-78-8)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Calcium oxide	
IOEL TWA	4 mg/m³	
IOEL STEL	1 mg/m³	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	2 mg/m³	
United Kingdom - Occupational Exposure Li	mits	
WEL TWA (OEL TWA) [1]	2 mg/m³	
Titanium dioxide (13463-67-7)		
Ireland - Occupational Exposure Limits		
OEL STEL	10 mg/m³ inhalable dust 4 mg/m³ respirable dust	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	10 mg/m³ inhalable dust 4 mg/m³ respirable dust	
Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclic, <2% aromatic		
EU - Indicative Occupational Exposure Limit	t (IOEL)	
IOEL STEL	1200 mg/m³	
4,4'-methylenediphenyl diisocyanate (101-68-8)	
EU - Indicative Occupational Exposure Limit	t (IOEL)	
IOEL TWA	0,052 mg/m³	
IOEL TWA [ppm]	0,005 ppm	
Ireland - Occupational Exposure Limits		
OEL TWA [1]	0,02 mg/m ³	
OEL STEL	0,07 mg/m ³	
chromium oxide (1308-38-9)		
EU - Indicative Occupational Exposure Limit	t (IOEL)	
IOEL TWA	2 mg/m³	

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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Local exhaust or breathing protection.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses		With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Protective clothing

Hand protection:

Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Hand protection	and protection				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Polyvinylalcohol (PVA)				EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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Respiratory protection	spiratory protection		
Device	Filter type	Condition	Standard
	Type A - High-boiling (>65 °C) organic compounds, Type P1, Type P2, Type P3	If conc. in air > exposure limit	EN 136, EN 140

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Consumer exposure controls:

Avoid contact with skin and eyes.

Other information:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : According to product specification.

Appearance : Paste.

Odour : Slight.

Odour threshold : Not available

Melting point : Not available

Freezing point : Not available

Boiling point : 137 °C

Flammability : Not flammable

Explosive properties : Product is not explosive.

Oxidising properties : Non oxidizing material according to EC criteria.

Explosive limits : Not applicable Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : ≥ 70 °C (ISO 3679)

Auto-ignition temperature : \geq 200 °C Decomposition temperature : Not available

pH : substance/mixture reacts with water

pH solution : Not available
Viscosity, kinematic : Not applicable
Non-Newtonian liquid : Thixotropic behaviour

Solubility : Insoluble.

Water: Insoluble

Partition coefficient n-octanol/water (Log

Kow)

: Not applicable for preparations

Partition coefficient n-octanol/water (Log

Particle aggregation state

Pow)

: Not applicable for preparations

Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : 1,16 g/cm³ Relative density : 1,16 at 20 °C Relative vapour density at 20°C : Not applicable : Not available Particle size Particle size distribution : Not available Particle shape : Not available : Not available Particle aspect ratio

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: Not available

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Particle agglomeration state : Not available
Particle specific surface area : Not available
Particle dustiness : Not available

Titanium dioxide	
Boiling point	3000 (2500 – 3000) °C

	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
Boiling point		> 300 °C
Flash point 209		209,5 °C

Reaction mass of ethylbenzene and xylene	
Boiling point	139,6 °C
Flash point	18 °C
Auto-ignition temperature	488 °C
Vapour pressure	821 at 20 °C

chromium oxide	
Boiling point	4000 °C

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No polymerization.

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

alcohols. Amines. Strong acids. Strong bases.

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10.6. Hazardous decomposition products

Carbon dioxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

, ,	
Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
LD50 dermal rat	> 10000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LC50 Inhalation - Rat	> 6,82 mg/l
LC50 Inhalation - Rat (Dust/Mist)	> 6,82 mg/l/4h
Hydrocarbons, C11-C14, n-alkane	s, iso-alkanes, cyclic, <2% aromatic
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 5000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 5000 mg/m³ (OECD 403 method)
Reaction mass of bis(1,2,2,6,6-pe 4-piperidyl sebacate (1065336-91 LD50 oral rat	ntamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl- 1-5) 3230 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute
LD30 Grai rat	Oral toxicity - Acute Toxic Class Method), 95% CL: 2615 - 4247
LD50 dermal rat	> 3170 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
4,4'-methylenediphenyl diisocyan	ate (101-68-8)
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 Inhalation - Rat	0,49 mg/l/4h
Reaction mass of ethylbenzene an	nd xylene
LD50 oral rat	3523 – 4000 mg/kg
LD50 dermal rabbit	12126 mg/kg
LC50 Inhalation - Rat	6,35 mg/l/4h
chromium oxide (1308-38-9)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LC50 Inhalation - Rat (Dust/Mist)	> 5,41 mg/l/4h (OECD 403 method)
Skin corrosion/irritation	· Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation

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[:] Not classified (Based on available data, the classification criteria are not met) pH: substance/mixture reacts with water

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Titanium dioxide (13463-67-7)			
рН	7		
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)			
рН	8,43 Concentration: 1 other:% g/v		
Serious eye damage/irritation Additional information	 Not irritating to rabbits on ocular application (Based on available data, the classification criteria are not met) pH: substance/mixture reacts with water (OECD 405 method) 		
Titanium dioxide (13463-67-7)			
рН	7		
Reaction mass of bis(1,2,2,6,6-p 4-piperidyl sebacate (1065336-9	pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-91-5)		
рН	8,43 Concentration: 1 other:% g/v		
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	 : May cause allergy or asthma symptoms or breathing difficulties if inhaled. : Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met) 		
4,4'-methylenediphenyl diisocya	nate (101-68-8)		
STOT-single exposure	May cause respiratory irritation.		
Reaction mass of ethylbenzene a	and xylene		
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)		
Reaction mass of bis(1,2,2,6,6-p 4-piperidyl sebacate (1065336-9	pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-91-5)		
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))		
4,4'-methylenediphenyl diisocya	nate (101-68-8)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Reaction mass of ethylbenzene a	and xylene		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
chromium oxide (1308-38-9)			
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight/day (OECD 408 method)		
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)		
Reaction mass of bis(1,2,2,6,6-p 4-piperidyl sebacate (1065336-9	pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-91-5)		
Viscosity, kinematic	478 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'		
Reaction mass of ethylbenzene a	and xylene		
Viscosity, kinematic	0,74 mm²/s at 20 °C		

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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : No information available.

Hazardous to the aquatic environment, : Not classified (Based on available data, the classification criteria are not met)

short-term (acute)

Hazardous to the aquatic environment, long- : Not classified (Based on available data, the classification criteria are not met)

term (chronic)

erm (chronic)				
Titanium dioxide (13463-67-7)				
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka			
LC50 - Fish [2]	> 10000 mg/l			
EC50 - Crustacea [1]	19,3 mg/l Test organisms (species): Daphnia magna			
EC50 - Crustacea [2]	27,8 mg/l Test organisms (species): Daphnia magna			
EC50 - Other aquatic organisms [1]	> 1000 mg/l			
EC50 - Other aquatic organisms [2]	61 mg/l			
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 72h - Algae [2]	> 100 mg/l pseudokirchneriella subcapitata			
NOEC (chronic)	≥ 2,92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC chronic algae	5600 mg/l			
Hydrocarbons, C11-C14, n-alkanes, is	Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclic, <2% aromatic			
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202 method)			
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)				
LC50 - Fish [1]	0,9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)			
EC50 72h - Algae [1]	1,68 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)			
EC50 72h - Algae [2]	0,42 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)			
4,4'-methylenediphenyl diisocyanate	(101-68-8)			
LC50 - Fish [1]	≥ 1000 mg/l			
EC50 - Crustacea [1]	≥ 1000 mg/l			
NOEC (chronic)	≥ 10 mg/l Daphnia magna (Big water flea)			
Reaction mass of ethylbenzene and x	ylene			
NOEC chronic fish	1,3 mg/l			
NOEC chronic crustacea	0,96 mg/l			
NOEC chronic algae	0,44 mg/l			
	1			

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chromium oxide (1308-38-9)	
LC50 - Fish [1]	> 10000 mg/l (OECD 210 method)
NOEC chronic fish	1000 mg/l (OECD 210 method)

12.2. Persistence and degradability

Titanium dioxide (13463-67-7)			
Persistence and degradability	Not readily biodegradable.		
Hydrocarbons, C11-C14, n-alkanes, iso	o-alkanes, cyclic, <2% aromatic		
Biodegradation	69 % (OECD 301F method)		
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)			
Biodegradation	(OECD 301F method)		
4,4'-methylenediphenyl diisocyanate (101-68-8)			
Persistence and degradability	Not easily bio-degradable (according to OECD-criteria).		
Biodegradation	28d 0 %		
Reaction mass of ethylbenzene and xylene			
Persistence and degradability	Readily biodegradable.		

12.3. Bioaccumulative potential

FIX PU 25		
Partition coefficient n-octanol/water (Log Pow) Not applicable for preparations		
Partition coefficient n-octanol/water (Log Kow)	Not applicable for preparations	
Titanium dioxide (13463-67-7)		
BCF - Fish [1]	352	
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)		
Partition coefficient n-octanol/water (Log Pow)	2,37 - 2,77 (OECD 107 method)	
4,4'-methylenediphenyl diisocyanate (101-68-8)		
Bioconcentration factor (BCF REACH)	200	
Partition coefficient n-octanol/water (Log Pow)	4,51	
Bioaccumulative potential	highly bioaccumulative.	
Reaction mass of ethylbenzene and xylene		
Partition coefficient n-octanol/water (Log Kow)	3,16 at 20 °C	
Bioaccumulative potential	Bioaccumulation unlikely.	

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12.4. Mobility in soil

Reaction mass of ethylbenzene and xylene	
Surface tension	28,7 mN/m at 25 °C
Ecology - soil	Floats on water.

12.5. Results of PBT and vPvB assessment

FIX PU 25

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Do not allow into drains or water courses

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal

recommendations

European List of Waste (LoW) code

- : This material and its container must be disposed of as hazardous waste.
- : Disposal must be done according to official regulations.
- : Dispose of at a licensed waste collection centre. Hand over to officially registered waste disposal company.
- : 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or	14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.2. UN proper ship	14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport haza	14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

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ADR	IMDG	IATA	ADN	RID
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary inform	ation available			

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : No dangerous good in sense of transport regulations.

Transport by sea

Transport regulations (IMDG) : No dangerous good in sense of transport regulations.

Air transport

Transport regulations (IATA) : No dangerous good in sense of transport regulations.

Inland waterway transport

Transport regulations (ADN) : No dangerous good in sense of transport regulations.

Rail transport

Transport regulations (RID) : No dangerous good in sense of transport regulations.

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
74.	4,4'- methylenediphenyl diisocyanate	Diisocyanates, $O = C=N-R-N = C=O$, with R an aliphatic or aromatic hydrocarbon unit of unspecified length

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

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Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out:

4,4'-methylenediphenyl diisocyanate

SECTION 16: Other information

Indication of changes:

Regulatory information. Physical and chemical properties.

Abbreviations and acronyms:		
CAS-No.	Chemical Abstract Service number	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
EN	European Standard	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
IOELV	Indicative Occupational Exposure Limit Value	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	

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Abbreviations and acronyms:			
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
VOC	Volatile Organic Compounds		
vPvB	Very Persistent and Very Bioaccumulative		

Data sources

: ECHA (European Chemicals Agency). REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region. Supplier's safety documents.

Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:				
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4			
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4			
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4			
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1			
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1			
Asp. Tox. 1	Aspiration hazard, Category 1			
Carc. 2	Carcinogenicity, Category 2			
EUH066	Repeated exposure may cause skin dryness or cracking.			
EUH071	Corrosive to the respiratory tract.			
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Flam. Liq. 3	Flammable liquids, Category 3			
H226	Flammable liquid and vapour.			
H304	May be fatal if swallowed and enters airways.			
H312	Harmful 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.			

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Full text of H- and EUH-statements:				
H319	Causes serious eye irritation.			
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.			
H361f	Suspected of damaging fertility.			
H373	May cause damage to organs through prolonged or repeated exposure.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
Repr. 2	Reproductive toxicity, Category 2			
Resp. Sens. 1	Respiratory sensitisation, Category 1			
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
Skin Sens. 1	Skin sensitisation, Category 1			
Skin Sens. 1A	Skin sensitisation, category 1A			
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2			
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation			

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Resp. Sens. 1	H334	Calculation method		
EUH212	EUH212			

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