

CP 620

Safety information for 2-Component-products

Issue date: 27/09/2024 Revis

Revision date: 27/09/2024

Supersedes: 03/11/2021

Version: 8.1

SECTION 1: Kit identification 1.1 Product identifier Trade name CP 620 Product code BU Fire Protection Image: CP 620 Image: CP 620

1.2 Details of the supplier of the Safety information for 2-Component-products

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

SECTION 3: Kit contents

Classification of the Product

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

Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
Repr. 2	H361d
STOT SE 3	H335
STOT RE 2	H373
Aquatic Chronic 3	H412

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

Label elements

Labelling according to Regulation (EC) No. 12 Hazard pictograms (CLP)	72/2008 [CLP]
Signal word (CLP)	Danger
Hazardous ingredients	4,4'-diphenylmethanediisocyanate, isomeres and homologues; 4,4'- diphenylmethanediisocyanate; zinc borate
Hazard statements (CLP)	H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled.
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	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P260 - Do not breathe vapours. P280 - Wear eye protection, protective clothing, protective gloves. P284 - In case of inadequate ventilation wear respiratory protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER.
Extra phrases	As from 24 August 2023 adequate training is required before industrial or professional use

Additional information

Name	General description	Quantity	Unit	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CP 620, B		1	pcs (pieces)	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
CP 620, A		1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 Aquatic Chronic 3, H412

SECTION 4: General information

General advice

For professional users only

Environmental precautions	Avoid release to the environment
Storage conditions	Store in a well-ventilated place. Keep cool.
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Wear personal protective equipment Do not breathe vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes In case of inadequate ventilation wear respiratory protection.
Methods for cleaning up	Take up liquid spill into absorbent material Notify authorities if product enters sewers or public waters

SECTION 6: First aid measures		
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell	
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.	
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First-aid measures after skin contact	Call a poison center or a doctor if you feel unwell Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing.
First-aid measures general	If you feel unwell, seek medical advice (show the label where possible)
Symptoms/effects after eye contact	Eye irritation
Symptoms/effects after inhalation	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	Irritation May cause an allergic skin reaction.
Other medical advice or treatment	Treat symptomatically

SECTION 7: Fire fighting measures

Protection during firefighting

Hazardous decomposition products in case of fire

Self-contained breathing apparatus Complete protective clothing Toxic fumes may be released Carbon dioxide Carbon monoxide

SECTION 8: Other information

No data available



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 27/09/2024 Revision date: 27/09/2024 Supersedes version of: 03/11/2021

Version: 9.0

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

1.1. Product identifier

Product form Trade name UFI Product code Mixture CP 620, B UYX3-1UYR-G52Y-4R6R BU Fire Protection

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

1.2.1. Relevant identified uses

Main use category Use of the substance/mixture Professional use Firestop foam

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Hilti (Fastening Systems) Limited Unit C4 North City Business Park, Finglas IE 11 Dublin Irland T +353 188 64101 1850-287 387 Call Save, F +353 183 03569 iesales@hilti.com

Hilti AG Feldkircherstraße 100 FL 9494 Schaan Liechtenstein T +423 234 2111 product.compliance-fire.protection@hilti.com

Department issuing data specification sheet

1.4. Emergency telephone number

Emergency number

Emergency CONTACT (24-Hour-Number): GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

+353 188 64101 1850-287 387 Call Save

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Carcinogenicity, Category 2 Specific target organ toxicity – Single exposure, Category 3, Respiratory	H351 H335
tract irritation	
Specific target organ toxicity – Repeated exposure, Category 2 Full text of H- and EUH-statements: see section 16	H373

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

Labelling according to Regulation (EC) No	0. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS08
Signal word (CLP)	Danger
Contains	4,4'-diphenylmethanediisocyanate, isomeres and homologues
Hazard statements (CLP)	H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	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.
	H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	P260 - Do not breathe vapours.
	P280 - Wear protective gloves, protective clothing, eye protection.
	P284 - In case of inadequate ventilation wear respiratory protection.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or
	doctor/physician.
Extra phrases	As from 24 August 2023 adequate training is required before industrial or professional use.
2.3. Other hazards	

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

Component	
4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Reaction products of phosphoryl trichloride and 2- methyloxirane (TCPP) (1244733-77-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Component				
4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	The substance is not 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			
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	The substance is not 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			
Reaction products of phosphoryl trichloride and 2- methyloxirane (TCPP) (1244733-77-4)	The substance is not 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			

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]		
4,4'-diphenylmethanediisocyanate, isomeres and homologues	CAS-No.: 9016-87-9 EC-No.: 248-740-5	50 - 90	Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373		
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate substance with national workplace exposure limit(s) (IE)	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9 REACH-no: 01-2119457014- 47	25 – 60	Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373		
Reaction products of phosphoryl trichloride and 2- methyloxirane (TCPP)	CAS-No.: 1244733-77-4 EC-No.: 807-935-0 REACH-no: 01-2119486772- 26	10 – 25	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Aquatic Chronic 3, H412		



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
4,4'-diphenylmethanediisocyanate, isomeres and homologues	CAS-No.: 9016-87-9 EC-No.: 248-740-5	$(0.1 \le C < 100)$ Resp. Sens. 1, H334 (5 $\le C < 100$) Skin Irrit. 2, H315 (5 $\le C < 100$) Eye Irrit. 2, H319 (5 $\le C < 100$) STOT SE 3, H335	
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9 REACH-no: 01-2119457014- 47	$(0.1 \le C \le 100)$ Resp. Sens. 1, H334 (5 $\le C \le 100$) Eye Irrit. 2, H319 (5 $\le C \le 100$) Skin Irrit. 2, H315 (5 $\le C \le 100$) STOT SE 3, H335	

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

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1. Description of mist and medsures	
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs:
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects after inhalation	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause an allergic skin reaction.
Symptoms/effects after skin contact	Irritation. May cause an allergic skin reaction. Causes skin irritation.

Symptoms/effects after eye contact Eye irritation. Causes serious eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide. Sand.			
Unsuitable extinguishing media	Do not use a heavy water stream.			
5.2. Special hazards arising from the substance or mixture				
Hazardous decomposition products in case of fire	Toxic fumes may be released.			



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.			
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.			
SECTION 6: Accidental release measures				

6.1.1. For non-emergency personnel Emergency procedures Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Evacuate unnecessary personnel. 6.1.2. For emergency responders Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Ventilate area.

Emergency procedures

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or
	public waters. Soak up spills with inert solids, such as clay or diatomaceous earth as soon
	as possible. Collect spillage. Store away from other materials.
Other information	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in

Storage conditions	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep only in
	the original container in a cool, well ventilated place away from :
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Storage temperature	5 – 25 °C



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)		
Ireland - Occupational Exposure Limits		
Local name	4,4'-Methylene-diphenyl diisocyanate (as —NCO) [MDI]	
OEL TWA	0.005 ppm	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	

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.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses. Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses



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Eye protection				
Type Field of application Characteristics Standard				
Safety glasses	Droplet		EN 166, EN 170	

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves tested to EN374. Suitable for short-term work or as a splash guard: Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact:

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥ 0,35		
Disposable gloves	Butyl rubber	6 (> 480 minutes)	≥ 0,35		

8.2.2.3. Respiratory protection

Respiratory protection:

Not necessary with sufficient ventilation. Ensure good ventilation of the work station. Open windows during application to ensure natural ventilation. If the occupational exposure limit is exceeded: Wear appropriate mask. (e.g. gas filter type A1-P2 according to EN 14387)

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

As from 24 August 2023 adequate training is required before industrial or professional use,www.feica.eu/PUinfo



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Colour
Odour
Odour threshold
Melting point
Freezing point
Boiling point
Flammability

Liquid amber. characteristic. Not available Not applicable Not available Not available Not applicable,Non flammable.



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
рН	Not available
Viscosity, kinematic	Not available
Solubility	Not available
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	≈ 1.032 g/cm³
Relative density	Not available
Relative vapour density at 20°C	Not available
Particle characteristics	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content

15 g/I EPA method 24 (CP 620, Comp. A + B)

SECTION 10: Stabilit	v and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information			
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity (oral)	Not classified		
Acute toxicity (dermal) Not classified			
Acute toxicity (inhalation) Inhalation:dust,mist: Harmful if inhaled.			
CP 620, B			
ATE CLP (dust,mist) 1.5 mg/l/4h			
4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)			
LD50 oral rat > 10000 mg/kg (Rat, Literature study, Oral)			



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

4,4'-diphenylmethanediisocyanate, isomeres a	ind homologues (9016-87-9)		
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)		
LD50 dermal	9400 mg/kg		
LC50 Inhalation - Rat	0.49 mg/l		
4,4'-methylenediphenyl diisocyanate; diphenyl	Imethane-4,4'-diisocyanate (101-68-8)		
LD50 oral rat	> 2000 mg/kg		
LD50 oral	31600 mg/kg		
LD50 dermal rabbit	> 9400 mg/kg		
LC50 Inhalation - Rat (Dust/Mist)	> 0.368 mg/l/4h		
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/irritation	Causes serious eye irritation.		
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an		
Respiratory of skill schollsauon	allergic skin reaction.		
Corm coll mutagonicity	Not classified		
Germ cell mutagenicity Additional information			
	Based on available data, the classification criteria are not met		
Carcinogenicity	Suspected of causing cancer.		
4,4'-diphenylmethanediisocyanate, isomeres a	ind homologues (9016-87-9)		
IARC group	3 - Not classifiable		
4,4'-methylenediphenyl diisocyanate; diphenyl	Imethane-4,4'-diisocyanate (101-68-8)		
IARC group	3 - Not classifiable		
Reproductive toxicity	Not classified		
Additional information	Based on available data, the classification criteria are not met		
STOT-single exposure	May cause respiratory irritation.		
4,4'-diphenylmethanediisocyanate, isomeres a			
STOT-single exposure	May cause respiratory irritation.		
4,4'-methylenediphenyl diisocyanate; diphenyl	Imethane-4.4'-diisocvanate (101-68-8)		
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
4,4'-diphenylmethanediisocyanate, isomeres a	Ind homologues (9016-87-9)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not classified		
Additional information	Based on available data, the classification criteria are not met		
11.2. Information on other hazards			
11.2.1. Endocrine disrupting properties			
11.2.2. Other information			
Potential adverse human health effects and	Harmful if inhaled.		
	Harman mindow.		

symptoms



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term advers effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified
4,4'-diphenylmethanediisocyanate, isomeres and	homologues (9016-87-9)
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)
12.2. Persistence and degradability	
CP 620, B	
Persistence and degradability	Not established.
4,4'-diphenylmethanediisocyanate, isomeres and	homologues (9016-87-9)
Persistence and degradability	Not readily biodegradable in water.
12.3. Bioaccumulative potential	
СР 620, В	
Bioaccumulative potential	Not established.
4,4'-diphenylmethanediisocyanate, isomeres and	homologues (9016-87-9)
BCF - Fish [1]	268.1 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	10.46 (Calculated, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	
4,4'-diphenylmethanediisocyanate, isomeres and	homologues (9016-87-9)
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties No additional information available	
12.7. Other adverse effects	
Additional information	Avoid release to the environment.

13.1. Waste	treatment	methods

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecological information	Avoid release to the environment.
European List of Waste (LoW, EC 2000/532)	08 05 01* - waste isocyanates
	08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances
HP Code	HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
	HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
	HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence
	HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin
	irritation or damage to the eye. HP13 - "Sensitising:" waste which contains one or more substances known to cause
	sensitising effects to the skin or the respiratory organs.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

IMDG	ΙΑΤΑ	RID
ber		
Not regulated	Not regulated	Not regulated
ame		
Not regulated	Not regulated	Not regulated
s(es)		
Not regulated	Not regulated	Not regulated
Not regulated	Not regulated	Not regulated
ls		
Not regulated	Not regulated	Not regulated
	ber Not regulated ame Not regulated s(es) Not regulated Not regulated Is	ber Not regulated

14.6. Special precautions for user

Overland transport Not regulated

Transport by sea Not regulated

Air transport Not regulated

Rail transport Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable



CP 620, B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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		
74.	4. 4,4'-diphenylmethanediisocyanate, isomeres and homologues	

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

VOC Directive (2004/42)

VOC content

15 g/I EPA method 24 (CP 620, Comp. A + B)

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

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
			general update	
3		Modified		
8		Modified		
15		Modified		
16		Modified		



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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			
ATE	Acute Toxicity Estimate			
BCF	Bioconcentration factor			
BLV	Biological limit value			
BOD	Biochemical oxygen demand (BOD)			
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
DMEL	Derived Minimal Effect level			
DNEL	Derived-No Effect Level			
EC-No.	European Community number			
EC50	Median effective concentration			
ED	Endocrine disrupting properties			
EN	European Standard			
IARC	International Agency for Research on Cancer			
ΙΑΤΑ	International Air Transport Association			
IMDG	International Maritime Dangerous Goods			
IOELV	ndicative Occupational Exposure Limit Value			
LC50	edian lethal concentration			
LD50	edian lethal dose			
LOAEL	owest Observed Adverse Effect Level			
N.O.S.	Not Otherwise Specified			
NOAEC	No-Observed Adverse Effect Concentration			
NOAEL	No-Observed Adverse Effect Level			
NOEC	No-Observed Effect Concentration			
vPvB	Very Persistent and Very Bioaccumulative			
WGK	Water Hazard Class			
VOC	Volatile Organic Compounds			
SDS	Safety Data Sheet			
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006			
PNEC	Predicted No-Effect Concentration			
PBT	Persistent Bioaccumulative Toxic			
OEL	Occupational Exposure Limit			
OECD	Organisation for Economic Co-operation and Development			



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms:		
COD	Chemical oxygen demand (COD)	
ThOD	Theoretical oxygen demand (ThOD)	
TRGS	Technical Rules for Hazardous Substances	
TLM	Median Tolerance Limit	
STP	Sewage treatment plant	

Data sources

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. None.

Other information

Full text of H- and EUH-statements:			
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Carc. 2	Carcinogenicity, Category 2		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
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.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H412	Harmful to aquatic life with long lasting effects.		
Resp. Sens. 1	Respiratory sensitisation, Category 1		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method	
Skin Irrit. 2	H315	Calculation method	
Eye Irrit. 2	H319	Calculation method	
Resp. Sens. 1	H334	Calculation method	
Skin Sens. 1	H317	Calculation method	
Carc. 2	H351	Calculation method	
STOT SE 3	H335	Calculation method	
STOT RE 2	H373	Calculation method	

SDS_EU_Hilti

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.



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 27/09/2024 Revision date: 27/09/2024 Supersedes version of: 03/11/2021

Version: 8.1

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

1.1. Product identifier

Product form Trade name UFI Product code Mixture CP 620, A 25YA-KU83-E521-PEGY BU Fire Protection

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

1.2.1. Relevant identified uses

Main use category Industrial/Professional use spec Use of the substance/mixture Professional use For professional use only Firestop foam

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Hilti (Fastening Systems) Limited Unit C4 North City Business Park, Finglas IE 11 Dublin Irland T +353 188 64101 1850-287 387 Call Save, F +353 183 03569 iesales@hilti.com

Department issuing data specification sheet Hilti AG Feldkircherstraße 100 FL 9494 Schaan Liechtenstein T +423 234 2111 product.compliance-fire.protection@hilti.com

1.4. Emergency telephone number

Emergency number

Emergency CONTACT (24-Hour-Number): GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

+353 188 64101 1850-287 387 Call Save

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements	
Labelling according to Regulation (EC) No.	1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS08
Signal word (CLP)	Warning
Contains	hexaboron dizinc undecaoxide, heptahydrate
Hazard statements (CLP)	H315 - Causes skin irritation.
	H319 - Causes serious eye irritation.
	H361 - Suspected of damaging the unborn child.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	P280 - Wear protective gloves, eye protection, protective clothing.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

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

Component	Component				
Ethylenediamine, propoxylated (25214-63-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
Bis(2-dimethylaminoethyl) ether (3033-62-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl- amino)ethanol (83016-70-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether (1179964-22-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				
Reaction products of phosphoryl trichloride and 2- methyloxirane (TCPP) (1244733-77-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				

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

Component				
Ethylenediamine, propoxylated (25214-63-5)	The substance is not 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			

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Component				
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether (1179964-22-7)	The substance is not 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			
Reaction products of phosphoryl trichloride and 2- methyloxirane (TCPP) (1244733-77-4)	The substance is not 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			
hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)	The substance is not 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			
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl- amino)ethanol (83016-70-0)	The substance is not 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			
Bis(2-dimethylaminoethyl) ether (3033-62-3)	The substance is not 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			

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethylenediamine, propoxylated	CAS-No.: 25214-63-5 EC-No.: 500-035-6 REACH-no: 01-2119471485- 32	25 – 40	Eye Irrit. 2, H319
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether	CAS-No.: 1179964-22-7 EC-No.: 926-564-6 REACH-no: 01-2119971810- 36	2.5 – 5	Acute Tox. 4 (Oral), H302 (ATE=732 mg/kg bodyweight)
Reaction products of phosphoryl trichloride and 2- methyloxirane (TCPP)	CAS-No.: 1244733-77-4 EC-No.: 807-935-0 REACH-no: 01-2119486772- 26	2.5 – 5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Aquatic Chronic 3, H412
hexaboron dizinc undecaoxide, heptahydrate	CAS-No.: 138265-88-0 EC-No.: 235-804-2	2.5 – 5	Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 2, H411



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl- amino)ethanol	CAS-No.: 83016-70-0 EC-No.: 406-080-7 EC Index-No.: 603-146-00-9 REACH-no: 01-0000015559- 60	1 – 2.5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Aquatic Chronic 3, H412
Bis(2-dimethylaminoethyl) ether substance with national workplace exposure limit(s) (IE)	CAS-No.: 3033-62-3 EC-No.: 221-220-5	0.1 – 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Skin Corr. 1B, H314 Aquatic Chronic 3, H412

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 general	IF exposed or concerned: Get medical advice/attention.			
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.			
First-aid measures after skin contact	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.			
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.			
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell.			
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/effects after skin contact	Irritation.			
Symptoms/effects after eye contact	Eye irritation.			

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the substa	nce or mixture
Hazardous decomposition products in case of fire	Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.



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SECTION 6: Accidental release	measures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	Ventilate spillage area. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.			
Hygiene measures	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, including any	/ incompatibilities			
Storage conditions Storage temperature	Store locked up. Store in a well-ventilated place. 5 − 25 °C			

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

Bis(2-dimethylaminoethyl) ether (3033-62-3)		
Ireland - Occupational Exposure Limits		
Local name	Bis-(2-Dimethylaminoethyl) ether	
OEL TWA 0.05 ppm		
OEL STEL	TEL 0.15 ppm	
Regulatory reference Chemical Agents Code of Practice 2021		

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available



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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.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Protective clothing. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves tested to EN374. Suitable for short-term work or as a splash guard: Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact:

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0,35mm		
Disposable gloves	Butyl rubber	6 (> 480 minutes)	>0,35mm		

8.2.2.3. Respiratory protection

Respiratory protection:

Not necessary with sufficient ventilation. Ensure good ventilation of the work station. Open windows during application to ensure natural ventilation. If the occupational exposure limit is exceeded: Wear appropriate mask. (e.g. gas filter type A1-P2 according to EN 14387)

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. No additional information available



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SECTION 9: Physical and chemical properties

Physical stateLiquidColourred.OdourNot avaiOdour thresholdNot avaiMelting pointNot applFreezing pointNot avaiBoiling pointNot avai	lable icable lable lable
OdourNot avaiOdour thresholdNot avaiMelting pointNot applFreezing pointNot avai	lable icable lable lable
Odour thresholdNot avaiMelting pointNot applFreezing pointNot avai	lable icable lable lable
Melting pointNot applFreezing pointNot avait	icable lable lable
Freezing point Not avai	lable
	lable
Boiling point Not avai	
	icable
Flammability Not appl	
Lower explosion limit Not avai	lable
Upper explosion limit Not avai	lable
Flash point Not appl	icable.
Auto-ignition temperature Not avai	lable
Decomposition temperature Not avai	lable
pH Not dete	rmined
Viscosity, kinematic Not avai	lable
Solubility Not avai	lable
Partition coefficient n-octanol/water (Log Kow) Not avai	lable
Vapour pressure Not avai	lable
Vapour pressure at 50°C Not avai	lable
Density ≈ 1.3 g/c	m ³
Relative density Not avai	lable
Relative vapour density at 20°C Not avai	lable
Particle characteristics Not appl	icable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content

15 mg/l EPA method 24 (CP 620, Comp. A + B)

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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11.1 Information on bazard classes of	s defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral)	Not classified		
Acute toxicity (dermal)	Not classified		
Acute toxicity (inhalation)	Not classified		
Bis(2-dimethylaminoethyl) ether (3033-62-3	3)		
LD50 oral rat	677 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))		
LD50 dermal rabbit	311 – 316 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Converted value, Dermal, 14 day(s))		
LC50 Inhalation - Rat (Dust/Mist)	4 mg/l/4h (OECD 403 method)		
LC50 Inhalation - Rat (Vapours)	> 2204 mg/l/4h (OECD 403 method)		
2-(2-(2-Dimethylaminoethoxy)-ethyl-methy			
LD50 oral rat	1364 mg/kg bodyweight (Other, Rat, Male / female, Experimental value, Oral)		
LD50 oral	1364 mg/kg		
LD50 dermal rabbit	5700 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)		
2,2',6,6'-Tetrabromo-4,4'-isopropylidenedig 22-7)	phenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether (1179964		
: ;			
LD50 oral rat	732 mg/kg		
	732 mg/kg > 2000 mg/kg		
LD50 oral rat	> 2000 mg/kg		
LD50 oral rat LD50 dermal rat	> 2000 mg/kg		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr	<pre>> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of</pre>		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male /		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat LD50 dermal rabbit	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) Causes skin irritation.		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat Skin corrosion/irritation	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) Causes skin irritation. pH: Not determined Causes serious eye irritation.		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) Causes skin irritation. pH: Not determined Causes serious eye irritation. pH: Not determined Causes serious eye irritation. pH: Not determined		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) Causes skin irritation. pH: Not determined Causes serious eye irritation. pH: Not determined Not classified		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat Skin corrosion/irritation Serious eye damage/irritation	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) Causes skin irritation. pH: Not determined Causes serious eye irritation. pH: Not determined Not classified Not classified		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) Causes skin irritation. pH: Not determined Causes serious eye irritation. pH: Not determined Not classified Not classified Not classified Not classified		
LD50 oral rat LD50 dermal rat hexaboron dizinc undecaoxide, heptahydr LD50 oral rat LD50 dermal rabbit LC50 Inhalation - Rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity	> 2000 mg/kg rate (138265-88-0) > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) > 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) Causes skin irritation. pH: Not determined Causes serious eye irritation. pH: Not determined Not classified Not classified Not classified Not classified Suspected of damaging the unborn child		

11.2. Information on other hazards

No additional information available



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short–term (acute)	Harmful to aquatic life with long lasting effects. Not classified
Hazardous to the aquatic environment, long–term (chronic)	Harmful to aquatic life with long lasting effects.
Ethylenediamine, propoxylated (25214-63-5)	
LC50 - Fish [1]	4500 mg/l Leuciscus idus (golden orfe)
EC50 72h - Algae [1]	35 mg/l
NOEC chronic crustacea	> 1 mg/l
Bis(2-dimethylaminoethyl) ether (3033-62-3)	
LC50 - Fish [1]	131.2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	102 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	24 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)
LC50 - Fish [1]	> 320 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	72 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	> 110 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
hexaboron dizinc undecaoxide, heptahydrate (138	3265-88-0)
LC50 - Fish [1]	169 μg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read- across)
EC50 - Crustacea [1]	155 – 413 μg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Read- across)
12.2. Persistence and degradability	
Bis(2-dimethylaminoethyl) ether (3033-62-3)	
Persistence and degradability	Not readily biodegradable in water.
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)
Persistence and degradability	Not readily biodegradable in water.
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, 22-7)	oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether (1179964
Persistence and degradability	biologically not degradable.
hexaboron dizinc undecaoxide, heptahydrate (138	3265-88-0)
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)				
ThOD	Not applicable			
BOD (% of ThOD)	Not applicable			
12.3. Bioaccumulative potential				
Bis(2-dimethylaminoethyl) ether (3033-62-3)				
Partition coefficient n-octanol/water (Log Pow)	-0.34 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)			
Bioaccumulative potential	Not bioaccumulative.			
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethyl-amino)ethyl-amino)ethyl-methyl-amino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino)ethylamino(amino)ethylamino(amino)ethylamino(ami	thanol (83016-70-0)			
Partition coefficient n-octanol/water (Log Pow)	-0.48 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 26 $^\circ\text{C}$)			
Bioaccumulative potential	Not bioaccumulative.			
2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, o 22-7)	ligomeric reaction products with Propylene oxide and n-butyl glycidyl ether (1179964-			
Partition coefficient n-octanol/water (Log Pow) 4.8				
hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)				
BCF - Fish [1]	116 – 60960 (21 day(s), Semi-static system, Marine water, Read-across, Fresh weight)			
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).			
12.4. Mobility in soil				
Bis(2-dimethylaminoethyl) ether (3033-62-3)				
Surface tension	No data available in the literature			
Ecology - soil	Low potential for adsorption in soil.			
2-(2-(2-Dimethylaminoethoxy)-ethyl-methyl-amino)ethanol (83016-70-0)				
Surface tension	61.3 mN/m (21 °C, 1 vol %, EU Method A.5: Surface tension)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.07 (log Koc, OECD draft TGP94/75, Experimental value, GLP)			
Ecology - soil	Low potential for mobility in soil.			
hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)				
Surface tension	Data waiving			
Ecology - soil Adsorbs into the soil.				
12.5. Results of PBT and vPvB assessment				

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available



HP Code

CP 620, A Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 13: Disposal considerations 13.1. Waste treatment methods

Waste treatment methods Product/Packaging disposal recommendations European List of Waste (LoW, EC 2000/532)

Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose in a safe manner in accordance with local/national regulations.

08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	ΙΑΤΑ	RID		
14.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping name					
Not applicable	Not applicable	Not applicable	Not applicable		
14.3. Transport hazard clas	s(es)		•		
Not applicable	Not applicable	Not applicable	Not applicable		
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable		
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		
No supplementary informatio	n available		1		

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

PIC Regulation (Prior Informed Consent)

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

POP Regulation (Persistent Organic Pollutants)

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

Ozone Regulation (1005/2009)

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

VOC Directive (2004/42)

VOC content

15 mg/I EPA method 24 (CP 620, Comp. A + B)

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

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
			general update	
8		Modified		
15		Modified		
16		Modified		

Abbreviations and acronyms:		
CAS-No.	Chemical Abstract Service number	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms:				
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
ATE	Acute Toxicity Estimate			
BCF	Bioconcentration factor			
BLV	Biological limit value			
BOD	Biochemical oxygen demand (BOD)			
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
DMEL	Derived Minimal Effect level			
DNEL	Derived-No Effect Level			
EC-No.	European Community number			
EC50	Median effective concentration			
ED	Endocrine disrupting properties			
EN	European Standard			
IARC	International Agency for Research on Cancer			
IATA	International Air Transport Association			
IMDG	International Maritime Dangerous Goods			
IOELV	Indicative Occupational Exposure Limit Value			
LC50	Median lethal concentration			
LD50	Median lethal dose			
LOAEL	Lowest Observed Adverse Effect Level			
N.O.S.	Not Otherwise Specified			
NOAEC	No-Observed Adverse Effect Concentration			
NOAEL	No-Observed Adverse Effect Level			
NOEC	No-Observed Effect Concentration			
vPvB	Very Persistent and Very Bioaccumulative			
WGK	Water Hazard Class			
VOC	Volatile Organic Compounds			
SDS	Safety Data Sheet			
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006			
PNEC	Predicted No-Effect Concentration			
РВТ	Persistent Bioaccumulative Toxic			
OEL	Occupational Exposure Limit			
OECD	Organisation for Economic Co-operation and Development			
COD	Chemical oxygen demand (COD)			
ThOD	Theoretical oxygen demand (ThOD)			



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms:		
TRGS	Technical Rules for Hazardous Substances	
TLM	Median Tolerance Limit	
STP	Sewage treatment plant	

Full text of H- and EUH-statements:				
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3			
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1			
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2			
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
H302	Harmful if swallowed.			
H311	Toxic in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H361	Suspected of damaging fertility or the unborn child.			
H361d	Suspected of damaging the unborn child.			
H400	Very toxic to aquatic life.			
H411	Toxic to aquatic life with long lasting effects.			
H412	Harmful to aquatic life with long lasting effects.			
Repr. 2	Reproductive toxicity, Category 2			
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:					
Skin Irrit. 2	H315	Calculation method			
Eye Irrit. 2	H319	Calculation method			
Repr. 2	H361	Calculation method			
Aquatic Chronic 3	H412	Calculation method			

SDS_EU_Hilti

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.