



according to Regulation (EC) No 1907/2006

POC-II, Comp. A

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

1.1. Product identifier

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UFI: NUQV-40D6-J006-NUWF

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

Use of the substance/mixture

Adhesive mortar for fastening elements A-component (resin)

Uses advised against

no restriction

1.3. Details of the supplier of the safety data sheet

Company name: UIP Verbindungstechnik GmbH

Street: Kapellenstraße 47 Place: D-65830 Kriftel

Telephone: +49 6192 9578050 Telefax:+49 6192 9578055

e-mail: office@uip-systems.com Internet: www.uip-systems.com

1.4. Emergency telephone +49 (0)551-19240 (GIZ-Nord, German and English, 24/7)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Tetramethylene dimethacrylate;

Ethylene dimethacrylate;

Methacrylic acid, monoester with propane-1,2-diol;

Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl]

(4-methylphenyl)amino]

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing vapours.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.



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P501

Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

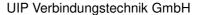
Hazardous components

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	GHS Classification				
2082-81-7	Tetramethylene dimethacrylate			5 - < 15 %	
	218-218-1		01-2119967415-30		
	Skin Sens. 1B; H317	•	•		
25013-15-4	Vinyltoluene			1 - < 6 %	
	246-562-2		01-2119622074-50		
	Flam. Liq. 3, Acute Tox. 4, Skir H412	ı İrrit. 2, Eye Irrit. 2, Aq	uatic Chronic 3; H226 H332 H315 H319		
97-90-5	Ethylene dimethacrylate			1 - < 5 %	
	202-617-2	607-114-00-5	01-2119965172-38		
	Skin Sens. 1, STOT SE 3; H31	7 H335			
27813-02-1	Methacrylic acid, monoester w	th propane-1,2-diol		< 2,5 %	
	248-666-3		01-2119490226-37		
	Eye Irrit. 2, Skin Sens. 1; H319	H317			
6846-50-0	1-Isopropyl-2,2-dimethyltrimeth	ylene Diisobutyrate		< 0,5 %	
	229-934-9		01-2119451093-47		
	Repr. 2, Aquatic Chronic 3; H3	61d H412			
-	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]				
	911-490-9		01-2119979579-10		
	Acute Tox. 4, Skin Irrit. 2, Eye I H412	Dam. 1, Skin Sens. 1, <i>i</i>	Aquatic Chronic 3; H302 H315 H318 H317		
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-o	I		< 0,5 %	
	254-075-1		01-2119980937-17		
	Acute Tox. 2, Eye Irrit. 2, Aqua	tic Chronic 3; H300 H3	19 H412		
130-15-4	1,4-naphthoquinone			< 0,05 %	
	204-977-6		01-2120760462-57		
	Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H330 H301 H314 H318 H317 H335 H400 H410				

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

Specific concentration limits and M-factors

<u>-p</u>					
CAS No	EC No	Chemical name	Quantity		
	Specific conce	concentration limits and M-factors			
97-90-5	202-617-2	Ethylene dimethacrylate	1 - < 5 %		
	STOT SE 3; H	335: >= 10 - 100			
130-15-4	204-977-6	1,4-naphthoquinone	< 0,05 %		
	M akut; H400:	M=10 M chron.; H410: M=1			





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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

May cause an allergic skin reaction.

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

Foam

Extinguishing powder

Water spray jet

Carbon dioxide (CO2)

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Pyrolysis products, toxic

Carbon monoxide

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire and/or explosion do not breathe fumes.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand



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Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a place accessible by authorized persons only. Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not use for products which come into contact with the food stuffs.

Further information on storage conditions

storage temperature: 5 - 25°C

7.3. Specific end use(s)

Adhesive mortar for fastening elements A-component (resin)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
2082-81-7	Tetramethylene dimethacrylate			
Worker DNEL	., long-term	inhalation	systemic	14,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4,3 mg/m ³
Consumer DN	NEL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	2,5 mg/kg bw/day
25013-15-4	Vinyltoluene			
Worker DNEL	., long-term	inhalation	systemic	37 mg/m ³
Worker DNEI	_, acute	inhalation	systemic	37 mg/m ³
Worker DNEI	., long-term	inhalation	local	37 mg/m³
97-90-5	Ethylene dimethacrylate			
Worker DNEL	., long-term	inhalation	systemic	2,45 mg/m ³
Worker DNEL	., long-term	dermal	systemic	1,3 mg/kg bw/day
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol			
Worker DNEL	., long-term	inhalation	systemic	14,7 mg/m³
Worker DNEL	., long-term	dermal	systemic	4,2 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	systemic	8,8 mg/m ³
Consumer DN	NEL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DN	NEL, long-term	oral	systemic	2,5 mg/kg bw/day
6846-50-0	1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate			
Worker DNEL	., long-term	dermal	systemic	5 mg/kg bw/day
Worker DNEI	., long-term	inhalation	systemic	17,62 mg/m ³
Consumer DN	NEL, long-term	inhalation	systemic	4,35 mg/m ³
Consumer DN	NEL, long-term	oral	systemic	5 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	systemic	5 mg/kg bw/day
-	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisetl (4-methylphenyl)amino]	nanol and Ethanol 2-	[[2-(2-hydroxyethoxy)ethyl]
Worker DNEL	., long-term	inhalation	systemic	9,8 mg/m ³
Worker DNEI	., long-term	dermal	systemic	1,4 mg/kg bw/day
Consumer DN	NEL, long-term	inhalation	systemic	2,9 mg/m ³
Consumer DN	NEL, long-term	oral	systemic	0,83 mg/kg bw/day
Consumer DN	NEL, long-term	dermal	systemic	0,83 mg/kg bw/day
130-15-4	1,4-naphthoquinone			
Worker DNEL	, long-term	inhalation	systemic	0,033 mg/m ³



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PNEC values

CAS No Substance	
Environmental compartment	Value
2082-81-7 Tetramethylene dimethacrylate	
Freshwater	0,043 mg/l
Marine water	0,004 mg/l
Freshwater sediment	3,12 mg/kg
Marine sediment	0,312 mg/kg
Micro-organisms in sewage treatment plants (STP)	2 mg/l
Soil	0,573 mg/kg
25013-15-4 Vinyltoluene	<u> </u>
Freshwater	0,05 mg/l
Marine water	0,002 mg/l
Freshwater sediment	0,684 mg/kg
Marine sediment	0,684 mg/kg
Soil	0,133 mg/kg
97-90-5 Ethylene dimethacrylate	
Freshwater	0,139 mg/l
Marine water	0,014 mg/l
Marine water (intermittent releases)	0,15 mg/l
Freshwater sediment	1,6 mg/kg
Marine sediment	0,16 mg/kg
Micro-organisms in sewage treatment plants (STP)	57 mg/l
Soil	0,239 mg/kg
27813-02-1 Methacrylic acid, monoester with propane-1,2-diol	·
Freshwater	0,904 mg/l
Marine water	0,904 mg/l
Freshwater sediment	6,28 mg/kg
Marine sediment	6,28 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,727 mg/kg
6846-50-0 1-lsopropyl-2,2-dimethyltrimethylene Diisobutyrate	
Freshwater	0,014 mg/l
Marine water	0,001 mg/l
Freshwater sediment	5,29 mg/kg
Marine sediment	0,529 mg/kg
Soil	1,05 mg/kg
- Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2 (4-methylphenyl)amino]	?-[[2-(2-hydroxyethoxy)ethyl]
Freshwater	0,048 mg/l
Marine water	0,005 mg/l
Freshwater sediment	0,12 mg/kg
Marine sediment	0,12 mg/kg
130-15-4 1,4-naphthoquinone	



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Freshwater	26,1 mg/l
Marine water	2,61 mg/l
Freshwater sediment	321 mg/kg
Marine sediment	32,1 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,172 mg/l
Soil	49 mg/kg

Additional advice on limit values

This mixture contains quartz filler which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat, drink or smoke.

Eye/face protection

Wear eye protection/face protection. Wear safety glasses.

Hand protection

Disposable gloves

Recommended material: NBR (Nitrile rubber)

Breakthrough time: > 480 min

Thickness of the glove material: > 0,2 mm

DIN-/EN-Norms: EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid (pasty)
Colour: light beige
Odour: characteristic
Odour threshold: No data available

pH-Value: not determined

Changes in the physical state

Melting point: not determined



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Initial boiling point and boiling range: not determined Flash point: not applicable

Flammability

Solid: not determined
Gas: not applicable
Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined Gas: not applicable Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Vapour pressure:

Density (at 20 °C):

Water solubility:

The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Response: Oxidising agent, strong

10.4. Conditions to avoid

Heat. Keep cool. Protect from sunlight.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
2082-81-7	Tetramethylene dimeth	acrylate				
	oral	LD50 mg/kg	10066	Rat		
	dermal	LD50 : mg/kg	> 3000	Rabbit		
25013-15-4	Vinyltoluene					
	dermal	LD50 4 mg/kg	4585	Rabbit		
	inhalation vapour	ATE .	11 mg/l			
	inhalation aerosol	ATE .	1,5 mg/l			
97-90-5	Ethylene dimethacrylat	е				
	oral	LD50 8 mg/kg	8700	Rat		
	dermal	LD50 : mg/kg	> 2000	Rat		
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol					
	oral	LD50 : mg/kg	> 2000	Rat		
	dermal	LD50 : mg/kg	> 5000	Rabbit		
6846-50-0	1-Isopropyl-2,2-dimeth	yltrimethylen	e Diisobu	tyrate		
	oral	LD50 3 mg/kg	3200	Rat		
	dermal	LD50 mg/kg	18900	Guinea pig		
-	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl] (4-methylphenyl)amino]					
	oral	LD50 (mg/kg	619	Rat		
38668-48-3	1,1'-(p-Tolylimino)dipro	pan-2-ol				
	oral	LD50 2 mg/kg	27,5	Rat		
	dermal	LD50 : mg/kg	> 2000	Rat		
130-15-4	1,4-naphthoquinone					
	oral	LD50 mg/kg	124	Rat		
	inhalation vapour		0,5 mg/l			
	inhalation (4 h) aerosol	LC50 (mg/l	0,046	Rat		

Irritation and corrosivity

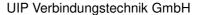
Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Tetramethylene dimethacrylate; Ethylene dimethacrylate; Methacrylic acid, monoester with propane-1,2-diol; Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]; 1,4-naphthoquinone)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.





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STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
2082-81-7	Tetramethylene dimetha	crylate			·		
	Acute algae toxicity	ErC50 mg/l	9,79	72 h			
	Crustacea toxicity	NOEC mg/l	5,09	21 d			
25013-15-4	Vinyltoluene						
	Acute fish toxicity	LC50	5,2 mg/l	96 h			
	Acute algae toxicity	ErC50	2,6 mg/l	72 h			
	Acute crustacea toxicity	EC50	9,3 mg/l	48 h	Daphnia magna (Big water flea)		
97-90-5	Ethylene dimethacrylate)					
	Acute fish toxicity	LC50 mg/l	15,95	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 mg/l	17,3	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	44,9	48 h	Daphnia magna (Big water flea)		
	Crustacea toxicity	NOEC mg/l	13,2	2 d			
27813-02-1	Methacrylic acid, monoe	ester with p	propane-1,2	2-diol			
	Acute algae toxicity	ErC50 mg/l	> 97,2	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	> 143	48 h	Daphnia magna (Big water flea)		
	Algae toxicity	NOEC	mg/l				
6846-50-0	1-Isopropyl-2,2-dimethy	Itrimethyle	ne Diisobut	tyrate			
	Algae toxicity	NOEC mg/l	2,25	3 d			
-	Reaction mass of 2,2'-[(4-methylphenyl)amino]	4-methylpl	henyl)imino]bisetha	anol and Ethanol 2-[[2-	(2-hydroxyethoxy)et	thyl]
	Acute fish toxicity	LC50 mg/l	> 100	96 h			
	Acute algae toxicity	ErC50 mg/l	> 100	72 h			
	Acute crustacea toxicity		48 mg/l	48 h			
38668-48-3	1,1'-(p-Tolylimino)diprop	an-2-ol					
	Acute fish toxicity	LC50	17 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50	245 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 mg/l	28,8	48 h	Daphnia magna (Big water flea)		
	Algae toxicity	NOEC mg/l	57,8	72 d	Desmodesmus subspicatus		OECD 201
130-15-4	1,4-naphthoquinone						
	Acute fish toxicity	LC50 mg/l	0,045	96 h	Oryzias latipes (Ricefish)		
	Acute algae toxicity	ErC50 mg/l	0,42	72 h			



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Acute crustacea toxicity	EC50 mg/l	0,026	48 h		
Algae toxicity	NOEC mg/l	0,07	3 d		

12.2. Persistence and degradability

The product has not been tested.

- 1110 р	Toddet Has Hot been tested.		
CAS No	Chemical name		
	Method	Value	d Source
	Evaluation		
2082-81-7	Tetramethylene dimethacrylate		
	OECD 310	84 %	28
25013-15-4	Vinyltoluene		
	OECD 310	36,7 %	28
97-90-5	Ethylene dimethacrylate		
	OECD 301D	71 %	28
27813-02-1	Methacrylic acid, monoester with propane-1,2-dio		
	OECD 301C	81%	28
130-15-4	1,4-naphthoquinone		
		39 %	5

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2082-81-7	Tetramethylene dimethacrylate	3,1
25013-15-4	Vinyltoluene	3,35
97-90-5	Ethylene dimethacrylate	2,4
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	0,97
6846-50-0	1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate	4,91
-	Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]	2,17
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol	2,1
130-15-4	1,4-naphthoquinone	1,77

BCF

CAS No	Chemical name	BCF	Species	Source
25013-15-4	Vinyltoluene	100 - 320		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

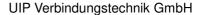
No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods





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Disposal recommendations

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations. Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances;

hazardous waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances;

hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):14.4. Packing group:No dangerous good in sense of this transport regulation.No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

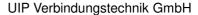
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.





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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

Additional information

VOC content: 2,8 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADN: Accord européen relativ au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level DNEL: Derived No Effect Level EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Oragnisation for Economic Co-operation and Development

PBT: persistent, bioaccumulative and toxic vPvB: very persistent and very bioaccumulative PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations

Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound Acute Tox. 3: Acute toxicity, Category 3 Acute Tox. 2: Acute toxicity, Category 2

Acute Tox. 4: Acute toxicity, Category 4

Aquatic Acute 1: Acute aquatic hazard, Category 1



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Aquatic Chronic 1: Long-term aquatic hazard, Category 1
Aquatic Chronic 3: Long-term aquatic hazard, Category 3

Asp. Tox. 1: Aspiration hazard, Category 1

Eye Dam. 1: Serious eye damage/eye irritation, Category 1 Eye Irrit. 2: Serious eye damage/eye irritation, Category 2

Flam. Liq. 3: Flammable liquid, Category 3 Repr. 2: Reproductive toxicity, Category 2

Skin Corr. 1C: Skin corrosion/irritation, Category 1C Skin Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Sens. 1A: Skin sensitilization, Category 1A Skin Sens. 1B: Skin sensitilization, Category 1B

STOT SE 3: Specific target organ toxicity (single exposure), Category 3

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

	<u> </u>
Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

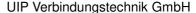
Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)





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

1.1. Product identifier

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UFI: 4XQV-N02K-U00Q-96GH

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

Use of the substance/mixture

compound mortar B-component (hardener)

Uses advised against

no restriction

1.3. Details of the supplier of the safety data sheet

Company name: UIP Verbindungstechnik GmbH

Street: Kapellenstraße 47 Place: D-65830 Kriftel

Telephone: +49 6192 9578050 Telefax:+49 6192 9578055

e-mail: office@uip-systems.com Internet: www.uip-systems.com

1.4. Emergency telephone +49 (0)551-19240 (GIZ-Nord, German and English, 24/7)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Causes serious eye irritation.

May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Dibenzoyl peroxide

Signal word: Warning

Pictograms:



Hazard statements

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves and eye/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an approved waste disposal plant in accordance with



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local/national regulation.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Chemical name		
	EC No	EC No Index No REACH No		
	GHS Classification			
94-36-0	Dibenzoyl peroxide			5 - < 15 %
	202-327-6 617-008-00-0 01-2119511472-50			
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410			

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

Specific concentration limits and M-factors

CAS No	EC No	Chemical name	Quantity
	Specific conce	Specific concentration limits and M-factors	
94-36-0	202-327-6	Dibenzoyl peroxide	5 - < 15 %
	M akut; H400:	M=10 M chron.; H410: M=10	

Further Information

The product has been tested for aquatic toxicity. The tests show no need for classification of the product as toxic and harmful to aquatic life. Test reports are available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

May cause an allergic skin reaction.

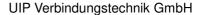
Causes serious eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media





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Suitable extinguishing media

Foam

Extinguishing powder

Water spray jet

Carbon dioxide (CO2)

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Pyrolysis products, toxic

Carbon monoxide

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Store in a place accessible by authorized persons only.

Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Oxidising agent, strong

Do not use for products which come into contact with the food stuffs.



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Further information on storage conditions

Keep container tightly closed in a cool place.

storage temperature: 5 - 25°C

7.3. Specific end use(s)

see section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
94-36-0	94-36-0 Dibenzoyl peroxide			
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Worker DNEL, long-term		dermal		13,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	39 mg/m³

PNEC values

CAS No	Substance		
Environmenta	al compartment	Value	
94-36-0 Dibenzoyl peroxide			
Freshwater		0,00002 mg/l	
Marine water		0,000002 mg/l	
Freshwater sediment (0,013 mg/kg	
Marine sediment 0,001 r		0,001 mg/kg	

Additional advice on limit values

This mixture contains quartz filler which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

8.2. Exposure controls



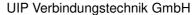


Appropriate engineering controls

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat or drink.





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Eye/face protection

Wear eye protection/face protection. Wear safety glasses.

Hand protection

Disposable gloves

Recommended material: NBR (Nitrile rubber)

Breakthrough time: > 480 min

Thickness of the glove material: > 0,2 mm

DIN-/EN-Norms: EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid (pasty)
Colour: black

Odour: characteristic

Odour threshold:

No data available

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Flash point:

not determined

not determined

not applicable

Flammability

Solid: not determined Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined Gas: not applicable Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Available oxygen content (%) < 1%

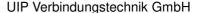
no classification

Vapour pressure: not determined

Density (at 20 °C): 1,59 g/cm³

Water solubility: The study does not need to be conducted

because the substance is known to be insoluble in water.





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Solubility in other solvents

not determined

Partition coefficient: not determined Vapour density: not determined Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

see section 10.3

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent

10.4. Conditions to avoid

see section 7.2

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

Benzoic acid Benzene

Biphenyl

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
94-36-0	Dibenzoyl peroxide						
		LD50 > 5000 mg/kg	Rat				

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Dibenzoyl peroxide)

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.



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Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus)

IC10: (0 - 72 h) = 30 mg/lIC50: (0 - 72 h) = 150 mg/l

OECD 202 (Daphnia magna) EC0/NOEC (48h) = 100 mg/l EC50 (48h) = >500 mg/l EC100 (48h) = >>500 mg/l

OECD 203 (Danio rerio) LC0/NOEC : 250 mg/l LC50 : > 500 mg/l LC100 : >> 500 mg/l

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d] Species		Source	Method		
94-36-0	Dibenzoyl peroxide								
	Acute fish toxicity	LC50 mg/l	0,0602		Oncorhynchus mykiss (Rainbow trout)	OECD 203			
	Acute algae toxicity	ErC50 mg/l	0,0711		Pseudokirchneriella subcapitata	OECD 201			
	Acute crustacea toxicity	EC50	0,11 mg/l		Daphnia magna (Big water flea)	OECD 202			
	Algae toxicity	NOEC mg/l	0,02		Pseudokirchneriella subcapitata	OECD 201			
	Crustacea toxicity	NOEC mg/l	0,001		Daphnia magna (Big water flea)	OECD 211			
	Acute bacteria toxicity	(35 mg/l)		0,5 h		OECD 209			

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method Value d Source				
	Evaluation				
94-36-0	Dibenzoyl peroxide				
	OECD 301D	71%	28		
	Readily biodegradable (according to OECD criteria).				

12.3. Bioaccumulative potential

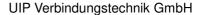
The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94-36-0	Dibenzoyl peroxide	3,2

12.4. Mobility in soil

The product has not been tested.





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12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations. Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances;

hazardous waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products);

waste adhesives and sealants containing organic solvents or other hazardous substances;

hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):14.4. Packing group:No dangerous good in sense of this transport regulation.No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

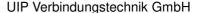
14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)





according to Regulation (EC) No 1907/2006

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14.1. UN number:
 14.2. UN proper shipping name:
 14.3. Transport hazard class(es):
 14.4. Packing group:
 No dangerous good in sense of this transport regulation.
 No dangerous good in sense of this transport regulation.
 No dangerous good in sense of this transport regulation.
 No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

Additional information

VOC content: 4,3 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADN: Accord européen relativ au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level DNEL: Derived No Effect Level EC50: Effective concentration, 50%

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO: International Civil Aviation Organization

IC50: Inhibitory concentration, 50%

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Oragnisation for Economic Co-operation and Development



UIP Verbindungstechnik GmbH

according to Regulation (EC) No 1907/2006

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PBT: persistent, bioaccumulative and toxic vPvB: very persistent and very bioaccumulative PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations

Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

Aquatic Acute 1: Acute aquatic hazard, Category 1 Aquatic Chronic 1: Long-term aquatic hazard, Category 1 Eye Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Sens. 1: Skin sensitilization, Category 1 Org. Perox. B: Organic Peroxides, Type B

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)