

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1690 Flexforce - 1690B Hardener

Revision: 26.02.2026

Product code: 1690B

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

1690 Flexforce - 1690B Hardener

Further trade names

Product Flexforce 1690: 1690A resin + 1690B Hardener

UFI: DK13-7G64-X00N-PSUA

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

Adhesives and sealants

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet**Manufacturer**

Company name: Kisling AG
Street: Motorenstrasse 102
Place: CH-8620 Wetzikon
Telephone: +41 58 272 0 272
E-mail: customerservice@kisling.com
Contact person: Product Compliance Telephone: +49 7940 5096 143
E-mail (Contact person): compliance@kisling.com
Internet: www.kisling.com

Supplier

Company name: Kisling (Deutschland) GmbH
Street: Salzstraße 15
Place: D-74676 Niedernhall
Telephone: +49 7940 50961 61
E-mail: customerservice@kisling.com
Contact person: Product Compliance Telephone: +49 7940 5096 143
E-mail Contact person: compliance@kisling.com
Internet: www.kisling.com

1.4. Emergency telephone number:24 hr. emergency phone number +1 872 5888271 (KAR)
Medicines & Poisons Info Office +356 2545 6508**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Irrit. 2; H315
Eye Dam. 1; H318
Skin Sens. 1; H317
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

dibenzoyl peroxide
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
Phenolic epoxy resin
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

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4-morpholinecarbaldehyde

Signal word: Danger

Pictograms:



Hazard statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Precautionary statements

- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.
- P391 Collect spillage.

Special labelling

The synthetic polymer microparticles supplied are subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 1 - 10% Polybutadiene Rubber).

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H317-H318

Precautionary statements

P280-P305+P351+P338-P310

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
94-36-0	dibenzoyl peroxide			10 - < 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			

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane			5 - < 15 %
	219-784-2		01-2119513212-58	
	Eye Dam. 1; H318			
9003-36-5	Phenolic epoxy resin			5 - < 15 %
	701-263-0		01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1A, Aquatic Chronic 2; H315 H317 H411			
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane			1 - < 5 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
4394-85-8	4-morpholinecarbaldehyde			1 - < 5 %
	224-518-3		01-2119987993-12	
	Skin Sens. 1B; H317			
77-99-6	Propylidynetrimethanol			0.1 - < 1 %
	201-074-9		01-2119486799-10	
	Repr. 2; H361fd			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
94-36-0	202-327-6	dibenzoyl peroxide	10 - < 15 %
		Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	
2530-83-8	219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	5 - < 15 %
		dermal: LD50 = 4248 mg/kg; oral: LD50 = 8025 mg/kg	
1675-54-3	216-823-5	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	1 - < 5 %
		dermal: LD50 = 23000 mg/kg; oral: LD50 = 19800 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
4394-85-8	224-518-3	4-morpholinecarbaldehyde	1 - < 5 %
		dermal: LD50 = > 18400 mg/kg; oral: LD50 = > 7314 mg/kg	
77-99-6	201-074-9	Propylidynetrimethanol	0.1 - < 1 %
		dermal: LD50 = > 10000 mg/kg; oral: LD50 = ca. 14700 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.

After contact with skin

Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. IF SWALLOWED: Immediately call a doctor.

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

 Irritant — skin irritation and eye damage
 May cause respiratory irritation. Dyspnoea.

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

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Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Dry extinguishing powder

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products, Flammable vapours can accumulate in steam space of closed systems.

5.3. Advice for firefighters

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

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Evacuate area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

For cleaning up

Soak up inert absorbent and dispose as waste requiring special attention.

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 in well-ventilated areas. Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothes. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

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

Never use pressure to empty container. Do not allow to enter into surface water or drains.

Do not wash equipment or storage containers.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

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Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
94-36-0	dibenzoyl peroxide			
Worker DNEL, long-term		inhalation	systemic	39 mg/m ³
Worker DNEL, long-term		dermal	systemic	13.3 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane			
Worker DNEL, long-term		inhalation	systemic	70.5 mg/m ³
Worker DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	17 mg/m ³
Consumer DNEL, acute		inhalation	systemic	26400 mg/m ³
Consumer DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane			
Worker DNEL, long-term		inhalation	systemic	4,93 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,75 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,87 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,0893 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0,5 mg/kg bw/day
4394-85-8	4-morpholinecarbaldehyde			
Worker DNEL, long-term		inhalation	systemic	50,3 mg/m ³
Worker DNEL, long-term		inhalation	local	13,3 mg/m ³
Worker DNEL, long-term		dermal	systemic	11,7 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,93 mg/m ³
Consumer DNEL, long-term		inhalation	local	13,3 mg/m ³
Consumer DNEL, long-term		dermal	systemic	4,17 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	4,17 mg/kg bw/day
77-99-6	Propylidynetrimethanol			
Worker DNEL, long-term		inhalation	systemic	3,3 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,94 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,58 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,34 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,34 mg/kg bw/day

PNEC values

CAS No	Name of agent	Value
	Environmental compartment	
94-36-0	dibenzoyl peroxide	
	Freshwater	0.00002 mg/l
	Freshwater (intermittent releases)	0.000602 mg/l
	Marine water	0.000002 mg/l
	Freshwater sediment	0.013 mg/kg
	Marine sediment	0.001 mg/kg

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
Micro-organisms in sewage treatment plants (STP)		0.35 mg/l
Soil		0.003 mg/kg
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	
Freshwater		0.45 mg/l
Freshwater (intermittent releases)		0.45 mg/l
Marine water		0.045 mg/l
Freshwater sediment		1.6 mg/kg
Marine sediment		0.16 mg/kg
Micro-organisms in sewage treatment plants (STP)		8.2 mg/l
Soil		0.063 mg/kg
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	
Freshwater		0,006 mg/l
Freshwater (intermittent releases)		0,018 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,341 mg/kg
Marine sediment		0,034 mg/kg
Secondary poisoning		11 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,065 mg/kg
4394-85-8	4-morpholinecarbaldehyde	
Freshwater		0,5 mg/l
Freshwater (intermittent releases)		5 mg/l
Marine water		0,05 mg/l
Freshwater sediment		1,85 mg/kg
Marine sediment		0,185 mg/kg
Micro-organisms in sewage treatment plants (STP)		2000 mg/l
Soil		0,076 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Tested protective gloves must be worn (EN ISO 374)

Breakthrough times and swelling properties of the material must be taken into consideration.

NBR (Nitrile rubber) 0,4 mm, Breakthrough time: 480 min

Skin protection

Avoid contact with skin, eyes and clothes.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter type: A/P2

Environmental exposure controls

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Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Paste solid
Colour:	white
Odour:	characteristic
Odour threshold:	not determined
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	No data available
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	>93 °C
Auto-ignition temperature:	80 °C
Decomposition temperature:	No data available
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	practically insoluble
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,59 g/cm ³
Relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	Polybutadiene Rubber Particle size < 5 mm

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

No data available

Oxidizing properties

May cause or intensify fire; oxidiser.

Other safety characteristics

Viscosity / dynamic: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

No known hazardous reactions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours.

Vapours can form explosive mixtures with air.

10.4. Conditions to avoid

No information available.

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10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane				
	oral	LD50 8025 mg/kg	Rat	Pre-supplier/manufacturer	OECD Guideline 401
	dermal	LD50 4248 mg/kg	Rabbit	Pre-supplier/manufacturer	OECD 402
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane				
	oral	LD50 19800 mg/kg	Rabbit	Publication (1958)	Rabbits were orally gavaged with test ma
	dermal	LD50 23000 mg/kg	Rabbit	Pre-supplier/manufacturer	
4394-85-8	4-morpholinecarbaldehyde				
	oral	LD50 > 7314 mg/kg	Rat	Study report (1967)	OECD Guideline 401
	dermal	LD50 > 18400 mg/kg	Rabbit	Toxicology and Applied Pharmacology 28:	OECD Guideline 402
77-99-6	Propylidynetrimethanol				
	oral	LD50 ca. 14700 mg/kg	Rat	Study report (1956)	Method: groups of 5 male rats were given
	dermal	LD50 > 10000 mg/kg	Rabbit	Study report (1956)	Groups of 4 albino rabbits were evaluate

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (dibenzoyl peroxide; Phenolic epoxy resin; 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; 4-morpholinecarbaldehyde)

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

May be harmful if swallowed, in contact with skin or if inhaled.

11.2. Information on other hazards

Other information

No data available

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
94-36-0	dibenzoyl peroxide					
	Acute fish toxicity	LC50 0.06 mg/l	96 h	Oncorhynchus mykiss	Study report (2010)	EU Method C.1
	Acute algae toxicity	ErC50 0.071 mg/l	72 h	Raphidocelis subcapitata	Study report (2010)	EU Method C.3
	Acute crustacea toxicity	EC50 0.11 mg/l	48 h	Daphnia magna	Study report (2010)	EU Method C.2
	Acute bacteria toxicity	EC50 35 mg/l ()		activated sludge of a predominantly domestic sewage	Study report (1990)	OECD Guideline 209

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane					
	Acute fish toxicity	LC50 55 mg/l	96 h	Cyprinus carpio	REACH Registration Dossier	EU Method C.1
	Acute algae toxicity	ErC50 350 mg/l	96 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 324 mg/l	48 h	Simocephalus vetulus	REACH Registration Dossier	USEPA. 1975. Methods for Acute Toxicity
	Algae toxicity	NOEC 130 mg/l	4 d	Daphnia magna (Big water flea)		OECD 211
	Crustacea toxicity	NOEC 100 mg/l	21 d	Simocephalus vetulus	REACH Registration Dossier	OECD 211
	Acute bacteria toxicity	EC50 > 100 mg/l ()	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane					
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Raphidocelis subcapitata	Study report (2007)	OECD Guideline 201
4394-85-8	4-morpholinecarbaldehyde					
	Acute fish toxicity	LC50 > 500 mg/l	96 h	Leuciscus idus	Study report (1984)	other: German Industrial Standard DIN 38
	Acute algae toxicity	ErC50 23880 mg/l	72 h	Desmodesmus subspicatus	Study report (1990)	other: German Industrial Standard DIN 38
	Acute crustacea toxicity	EC50 > 500 mg/l	48 h	Daphnia magna	Study report (1987)	other: Directive 79/831/EEC, Annex V, Pa
	Crustacea toxicity	NOEC 38 mg/l	21 d	Daphnia magna	QSAR Toolbox (2021)	- Principle of test: Estimation method f
77-99-6	Propylidynetrimethanol					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Alburnus alburnus	Marine Pollution Bulletin, 14, 213-214 (A static acute toxicity test was perform
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Raphidocelis subcapitata	Citation of an unavailable study report	other: OECD Guideline, not further speci
	Crustacea toxicity	NOEC > 1000 mg/l	21 d	Daphnia magna	Citation of an unavailable study report	other: OECD guideline, not further speci
	Acute bacteria toxicity	EC50 > 1000 mg/l ()	3 h	activated sludge of a predominantly domestic sewage	Study report (2010)	EU Method C.11

12.2. Persistence and degradability

No data available

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane			
	DOC; Die Away Test - 79/831/EWG Teil C.4-A	37%	28	Pre-supplier/manufacturer
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94-36-0	dibenzoyl peroxide	3,2
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	0,5
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	>= 2,64
4394-85-8	4-morpholinecarbaldehyde	-1,2
77-99-6	Propylidynetrimethanol	-0,47

BCF

CAS No	Chemical name	BCF	Species	Source
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	31		Study report (2010)
4394-85-8	4-morpholinecarbaldehyde	< 1,9	Cyprinus carpio	Study report (1986)
77-99-6	Propylidynetrimethanol	< 1	Cyprinus carpio	Citation of an unava

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of contents/container to industrial incineration plant.

Dispose of waste according to applicable legislation.

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

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Contaminated packaging

Do not wash with:
Transfer wash-downs in sealed containers.
Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3077
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Classification code: M7
Special Provisions: 274 335 375 601
Limited quantity: 5 kg
Excepted quantity: E1
Transport category: 3
Hazard No: 90
Tunnel restriction code: -

Other applicable information (land transport)

ADR: 375: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3077
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Classification code: M7
Special Provisions: 274 335 375 601
Limited quantity: 5 kg
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3077
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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(DIBENZOYL PEROXIDE)

14.3. Transport hazard class(es): 9**14.4. Packing group:** III

Hazard label: 9



Special Provisions: 274 335 966 967 969

Limited quantity: 5 kg

Excepted quantity: E1

EmS: F-A, S-F

Other applicable information (marine transport)

IMDG: 375: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number or ID number:** UN 3077**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)**14.3. Transport hazard class(es):** 9**14.4. Packing group:** III

Hazard label: 9



Special Provisions: A97 A158 A179 A197 A215

Limited quantity Passenger: 30 kg G

Passenger LQ: Y956

Excepted quantity: E1

IATA-packing instructions - Passenger: 956

IATA-max. quantity - Passenger: 400 kg

IATA-packing instructions - Cargo: 956

IATA-max. quantity - Cargo: 400 kg

Other applicable information (air transport)

IATA: A197 (375): These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: DIBENZOYL PEROXIDE

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

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Other applicable information

No information available.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75, Entry 78

Directive 2010/75/EU on industrial emissions: 0.64 % (10.173 g/l)

Information according to Directive 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

(EU) EINECS/ELINCS/NLP: yes

(RC) TCSI: yes

(NZ) NZIoC: yes

(USA) TSCA: yes

(CDN) DSL: yes

(ROK) KECI/ECL: yes

(RP) PICCS: yes

(JP) MITI: yes

(CHN) IECSC: yes

(AUS) AIIC: yes

(CDN) NDSL: no

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 8,14.

Abbreviations and acronyms

Org. Perox. B: Organic peroxides, type B

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Dam. 1: Serious eye damage, hazard category 1

Eye Irrit. 2: Eye irritation, hazard category 2

Skin Sens. 1: Skin sensitisation, hazard category 1

Skin Sens. 1A: Skin sensitisation, hazard category 1A

Skin Sens. 1B: Skin sensitisation, hazard category 1B

Repr. 2: Reproductive toxicity, hazard category 2

Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

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DMEL: Derived Minimal Effect Level
 PNEC: Predicted No Effect Concentration
 ATE: Acute toxicity estimate
 LC50: Lethal concentration, 50%
 LD50: Lethal dose, 50%
 LL50: Lethal loading, 50%
 EL50: Effect loading, 50%
 EC50: Effective Concentration 50%
 ErC50: Effective Concentration 50%, growth rate
 NOEC: No Observed Effect Concentration
 BCF: Bio-concentration factor
 PBT: persistent, bioaccumulative, toxic
 vPvB: very persistent, very bioaccumulative
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Regulations concerning the international carriage of dangerous goods by rail
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
 intérieures)
 IMDG: International Maritime Code for Dangerous Goods
 EmS: Emergency Schedules
 MFAG: Medical First Aid Guide
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships
 IBC: Intermediate Bulk Container
 VOC: Volatile Organic Compounds
 SVHC: Substance of Very High Concern
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety
 assessment, chapter R.20 (Table of terms and abbreviations).

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H241	Heating may cause a fire or explosion.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)