

HVU2 M8 - M30

Safety Data Sheet

according to the Model Work Health and Safety Regulations Issue date: 10/01/2022 Revision date: 10/01/2022

Supersedes: 09/01/2019

Version: 2.3

or anchor fastening in concrete
cification sheet:
hbH
/HS Regulations)
- monoester with 1.2-propagedial $(4 - < 8.\%)$: 2-Propendic
-, monoester with 1,2-propanediol (4 – < 8 %); 2-Propenoic diyl ester (2.5 – 5 %); dibenzoyl peroxide (0.5 – <1.5 %); 2.5 %)
diyl ester (2.5 – 5 %); dibenzoyl peroxide (0.5 – <1.5 %); 2.5 %) gic skin reaction
diyl ester (2.5 – 5 %); dibenzoyl peroxide (0.5 – <1.5 %); 2.5 %) gic skin reaction aborn child.
diyl ester ($2.5 - 5$ %); dibenzoyl peroxide ($0.5 - <1.5$ %); 2.5 %) gic skin reaction aborn child. h, protective clothing, protective gloves.
diyl ester (2.5 – 5 %); dibenzoyl peroxide (0.5 – <1.5 %); 2.5 %) gic skin reaction born child. n, protective clothing, protective gloves. on skin, or on clothing.
diyl ester $(2.5 - 5\%)$; dibenzoyl peroxide $(0.5 - <1.5\%)$; 2.5%) gic skin reaction aborn child. n, protective clothing, protective gloves. on skin, or on clothing. EYES: Rinse cautiously with water for several minutes.
diyl ester (2.5 – 5 %); dibenzoyl peroxide (0.5 – <1.5 %); 2.5 %) gic skin reaction aborn child. n, protective clothing, protective gloves. on skin, or on clothing. EYES: Rinse cautiously with water for several minutes. present and easy to do. Continue rinsing. Wash with plenty of water.
diyl ester (2.5 – 5 %); dibenzoyl peroxide (0.5 – <1.5 %); 2.5 %) gic skin reaction aborn child. h, protective clothing, protective gloves. on skin, or on clothing. EYES: Rinse cautiously with water for several minutes. present and easy to do. Continue rinsing.
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2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	27813-02-1	4 - < 8	Eye Irrit. 2A, H319 Skin Sens. 1, H317
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	2.5 – 5	Skin Sens. 1B, H317
dibenzoyl peroxide	94-36-0	0.5 - <1.5	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317
dicyclohexyl phthalate	84-61-7	1 – 2.5	Skin Sens. 1, H317 Repr. 1B, H360
1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	< 0.5	Acute Tox. 2 (Oral), H300 Eye Irrit. 2A, H319

SECTION 4: First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.
4.2. Symptoms caused by exposu	ire

Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	May cause severe irritation.

4.3. Medical attention and special treatment

No additional information available

SECTION 5: Fire-fighting measures

5.1.	Extinguishing media		
Suitabl	e extinguishing media	Water spray. Carbon dioxide. Dry powder. Foam. Sand.	
Unsuitable extinguishing media		Do not use a heavy water stream.	
5.2.	Specific hazards arising from the	e chemical	
General measures		Spilled material may present a slipping hazard.	
Hazardous decomposition products in case of fire		Thermal decomposition generates : Carbon dioxide. Carbon monoxide.	
5.3.	Special protective equipment an	d precautions for fire-fighters	
Firefig	nting 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.	



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Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, prote	Personal precautions, protective equipment and emergency procedures					
General measures	Spilled material may present a slipping hazard.					
6.1.1. For non-emergency personnel	6.1.1. For non-emergency personnel					
Emergency procedures	Evacuate unnecessary personnel.					
6.1.2. For emergency responders						
Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection.					
Emergency procedures	Ventilate area.					
6.2. Environmental precautions						
6.2. Environmental precautions						

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and materials for contain	Methods and materials for containment and cleaning up				
For containment	Collect spillage.				
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials.				

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	Wear personal protective equipment. 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.			
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.			
7.2. Conditions for safe storage, inclu	Iding any incompatibilities			
Storage conditions	Keep cool. Protect from sunlight. Expiry date: See date printed on box and capsule. Do not use if expiry date has been exceeded!.			
Incompatible products	Strong bases. Strong acids.			
Incompatible materials	Sources of ignition. Direct sunlight.			
Storage temperature	-20 – 25 °C			
Heat and ignition sources	Keep away from heat and direct sunlight.			

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

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Australia - Occupational Exposure Limits			
OES TWA [1] 5 mg/m ³			
Remark (AU) Sen - Respiratory and/or Skin Sensitiser.			
Regulatory reference	Workplace exposure standards for airborne contaminants (2019)		

8.2. Biological Monitoring

No additional information available



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8.3. **Engineering controls**

Appropriate engineering controls

Ensure adequate ventilation.

8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment

Hand protection

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

Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN ISO 374
Eye protection Wear security glasses which protect from splashes					

Wear security glasses which protect from splashes	
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Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Skin and body protection

Wear suitable protective clothing



Personal protective equipment symbol(s)

Environmental exposure controls Consumer exposure controls Other information

Avoid release to the environment. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Physical state	Solid
Appearance	Pasty. foil capsule.
Colour	resin: yellowish liquid hardener: white powder
Odour	characteristic
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point / Freezing point	No data available
Boiling point	No data available
Flash point	> 101 °C (DIN EN ISO 1523)
Auto-ignition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	Vapour pressure : 0.1 hPa
Relative density	No data available
Density	Density : 2.95 g/cm ³
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	20 mm²/s (ISO 2431)
Explosive properties	No data available
Explosive limits	No data available
Minimum ignition energy	No data available
SADT	55 °C (Peroxide)



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Fat solubility	No data available	
SECTION 10: Stability and reactivity		
Reactivity	No additional information available	

Redotivity	
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No additional information available.
Conditions to avoid	Direct sunlight. Extremely high or low temperatures.
Incompatible materials	Strong acids. Strong bases.
Hazardous decomposition products	fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
Not classified	
Not classified	
Not classified	

dicyclohexyl phthalate (84-61-7)	
LD50 oral rat	41400 mg/kg (Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	≥ 5000 mg/kg bodyweight (Rabbit; Experimental value)
2-Propenoic acid, 2-methyl-, 1,4-butanediyl	ester (2082-81-7)
LD50 oral rat	10066 mg/kg
LD50 dermal rat	> 3000 mg/kg
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	May damage the unborn child.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
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Viscosity, kinematic	20 mm ² /s (ISO 2431)
Potential adverse human health effects and symptoms	No additional information available

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request



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12.1. Ecotoxicity		
Hazardous to the aquatic environment, short- term (acute)	Not classified	
Hazardous to the aquatic environment, long-term (chronic)	Not classified	
dibenzoyl peroxide (94-36-0)		
LC50 - Fish [2]	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)	
EC50 - Crustacea [1]	0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)	
ErC50 algae	0.0711 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	
NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)	
NOEC chronic fish	0.001 mg/l	
Partition coefficient n-octanol/water (Log Pow)	3.71	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
dicyclohexyl phthalate (84-61-7)		
LC50 - Fish [1]	> 10000 mg/l (96 h; Brachydanio rerio; Static system)	
LC50 - Other aquatic organisms [1]	1.04 mg/l	
NOEC (acute)	> 2 mg/l	
NOEC chronic crustacea	0.181 mg/l	
BCF - Fish [1]	640 (Pisces)	
Partition coefficient n-octanol/water (Log Pow)	3 - 6.2	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
2-Propenoic acid, 2-methyl-, monoester with	1,2-propanediol (27813-02-1)	
2-Propenoic acid, 2-methyl-, monoester with LC50 - Fish [1]	1,2-propanediol (27813-02-1) 493 mg/l (48 h; Leuciscus idus; GLP)	
LC50 - Fish [1]	493 mg/l (48 h; Leuciscus idus; GLP)	
LC50 - Fish [1] EC50 - Crustacea [1]	 493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static 	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae	 493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) 	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1]	 493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2]	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR)	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method)	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption Coefficient (Log Koc)	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method) 1.9 (log Koc, Calculated value)	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption Coefficient (Log Koc) Threshold limit - Algae [1]	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method) 1.9 (log Koc, Calculated value) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption Coefficient (Log Koc) Threshold limit - Algae [1] Threshold limit - Algae [2]	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method) 1.9 (log Koc, Calculated value) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.9 mg/l	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption Coefficient (Log Koc) Threshold limit - Algae [1] Threshold limit - Algae [2] 2-Propenoic acid, 2-methyl-, 1,4-butanediyl e	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method) 1.9 (log Koc, Calculated value) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) ster (2082-81-7)	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption Coefficient (Log Koc) Threshold limit - Algae [1] Threshold limit - Algae [2] 2-Propenoic acid, 2-methyl-, 1,4-butanediyl e LC50 - Other aquatic organisms [1]	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method) 1.9 (log Koc, Calculated value) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.9 mg/l	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption Coefficient (Log Koc) Threshold limit - Algae [1] Threshold limit - Algae [1] Threshold limit - Algae [2] 2-Propenoic acid, 2-methyl-, 1,4-butanediyl e LC50 - Other aquatic organisms [1] NOEC (acute)	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method) 1.9 (log Koc, Calculated value) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) ster (2082-81-7) 9.79 mg/l 7.51 mg/l	
LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption Coefficient (Log Koc) Threshold limit - Algae [1] Threshold limit - Algae [1] Threshold limit - Algae [2] 2-Propenoic acid, 2-methyl-, 1,4-butanediyl e LC50 - Other aquatic organisms [1] NOEC (acute) NOEC (chronic)	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method) 1.9 (log Koc, Calculated value) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) Ster (2082-81-7) 9.79 mg/l 7.51 mg/l 20 mg/l	
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LC50 - Fish [1] EC50 - Crustacea [1] ErC50 algae BCF - Fish [1] BCF - Fish [2] Partition coefficient n-octanol/water (Log Pow) Organic Carbon Normalized Adsorption Coefficient (Log Koc) Threshold limit - Algae [1] Threshold limit - Algae [1] Threshold limit - Algae [2] 2-Propenoic acid, 2-methyl-, 1,4-butanediyl e LC50 - Other aquatic organisms [1] NOEC (acute) NOEC (chronic) Partition coefficient n-octanol/water (Log Pow) 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) LC50 - Fish [1] LC50 - Other aquatic organisms [1]	493 mg/l (48 h; Leuciscus idus; GLP) > 143 mg/l (48 h; Daphnia magna; GLP) 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) ≤ 100 3.2 Quantitative structure-activity relationship (QSAR) 0.97 (OECD 102 method) 1.9 (log Koc, Calculated value) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP) > 97.9 mg/l 7.51 mg/l 20 mg/l 3.1	

12.2. Persistence and degradability

dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment.
dicyclohexyl phthalate (84-61-7)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water.



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dicyclohexyl phthalate (84-61-7)		
ThOD	2.376 g O ₂ /g substance	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Not rapidly degradable		
Persistence and degradability	Readily biodegradable in water.	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Not rapidly degradable		
Biodegradation	84 %	

12.3. Bioaccumulative potential

dibenzoyl peroxide (94-36-0)		
Partition coefficient n-octanol/water (Log Pow)	3.71	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).	
dicyclohexyl phthalate (84-61-7)		
BCF - Fish [1]	640 (Pisces)	
Partition coefficient n-octanol/water (Log Pow)	3 - 6.2	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
BCF - Fish [1]	≤ 100	
BCF - Fish [2]	3.2 Quantitative structure-activity relationship (QSAR)	
Partition coefficient n-octanol/water (Log Pow)	0.97 (OECD 102 method)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (log Koc, Calculated value)	
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Partition coefficient n-octanol/water (Log Pow)	3.1	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Partition coefficient n-octanol/water (Log Kow)	2.1	

12.4. Mobility in soil

dibenzoyl peroxide (94-36-0)		
Surface tension	No data available (test not performed)	
Partition coefficient n-octanol/water (Log Pow)	3.71	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	See section 12.1 on ecotoxicology3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology - soil	Low potential for mobility in soil.	
dicyclohexyl phthalate (84-61-7)		
Partition coefficient n-octanol/water (Log Pow)	3 - 6.2	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Partition coefficient n-octanol/water (Log Pow)	0.97 (OECD 102 method)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	See section 12.1 on ecotoxicology1.9 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Partition coefficient n-octanol/water (Log Pow)	3.1	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Partition coefficient n-octanol/water (Log Kow)	2.1	

12.5. Other adverse effects

Not classified



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Other adverse effects	No additional information available	
HVU2 M8 - M30		
Fluorinated greenhouse gases	False	
dibenzoyl peroxide (94-36-0)		
Fluorinated greenhouse gases	False	
dicyclohexyl phthalate (84-61-7)		
Fluorinated greenhouse gases	False	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Fluorinated greenhouse gases	False	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Fluorinated greenhouse gases	False	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Fluorinated greenhouse gases	False	

SECTION 13: Disposal considerations

Regional legislation (waste)	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	After curing, the product can be disposed of with household waste Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	ΙΑΤΑ	RID			
14.1. UN number or ID number						
UN 3077	UN 3077	UN 3077	UN 3077			
14.2. UN proper shipping name						
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) Transport document description	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III			
14.3. Transport hazard class(es)						
9	9	9	9			
14.4. Packing group						
111						



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ADR	IMDG	ΙΑΤΑ	RID
14.5. Environmental hazards			
Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:
Yes	Yes	Yes	Yes
	Marine pollutant: Yes		
	ial Provision SP375, IATA-DGR Spec	ial Provision A197 and IMDG-Code 2	.10.2.7
14.6. Special precautions for	user		
Overland transport			
Classification code (ADR)	M7		
Special provisions (ADR)	274, 335, 375, 601		
Limited quantities (ADR)	5kg		
Packing instructions (ADR)	P002, IBC08, LP02, R001		
Mixed packing provisions (ADR)	MP10		
Transport category (ADR)	3	•	
Orange plates	90		
	3077		
	2011	1	
Tunnel restriction code (ADR)	-		
Transport by sea			
Special provisions (IMDG)	274, 335, 966, 9	967, 969	
Limited quantities (IMDG)	5 kg		
Packing instructions (IMDG)	LP02, P002		
EmS-No. (Fire)	F-A		
EmS-No. (Spillage)	S-F		
Stowage category (IMDG)	A		
Stowage and handling (IMDG)	SW23		
A ! (
Air transport PCA packing instructions (IATA)	956		
PCA max net quantity (IATA)			
CAO packing instructions (IATA)	400kg 956		
		0 4107 4215	
Special provisions (IATA)	A97, A158, A17	9, A197, A215	
Rail transport			
Special provisions (RID)	274, 335, 375, 6	601	
Limited quantities (RID)	5kg		
Packing instructions (RID)	P002, IBC08, LF	P02, R001	
	Ik according to IMO instrumen	ts	
Not applicable			
14.8. Hazchem or Emergency			
Hazchem Code	Not applicable		

SECTION 15: Regulatory information

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

No additional information available

15.2. International agreements

No additional information available



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Indication of chan				
Section	Changed item	Change	Comments	
2.1	Classification (GHS AU)	Modified		
2.2	Hazard pictograms (GHS AU)	Modified		
2.2	Hazard statements (GHS AU)	Modified		
3	Composition/information on ingredients	Modified		
14	Transport information	Added		
bbreviations and a	Inland M ADR - I Road ATE - A BCF - E CLP - C DMEL - DNEL - EC50 - IARC - IARC - IATA - IMDG - LC50 - LD50 - LOAEL NOAEC NOAEC NOAC NOAEC	Vaterways European Agreement concern Acute Toxicity Estimate Bioconcentration factor Classification Labelling Packag Derived Minimal Effect level Derived-No Effect Level Median effective concentration International Agency for Rese International Agency for Rese International Air Transport Ass International Maritime Dange Median lethal concentration Median lethal dose - Lowest Observed Adverse Effe - No-Observed Adverse Effe - No-Observed Adverse Effe - No-Observed Effect Concen Organisation for Economic O Predicted No-Effect Concent I - Registration, Evaluation, Au 7/2006	earch on Cancer sociation rous Goods Effect Level ct Concentration ct Level tration Co-operation and Development xic ration uthorisation and Restriction of Chemicals Regulation (EC)	
		• •	ernational Carriage of Dangerous Goods by Rail	
		Safety Data Sheet		
		Very Persistent and Very Bioa	accumulative	
evision date 10/01/2022		022	2	
Other information None.				
Classification:				
Skin Sens. 1	H317			
Repr. 1B	H360			
Full text of H-state	ements:			
Acute Tox. 2 (Or		toxicity (oral), Category 2		

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A	
Org. Perox. B	Organic Peroxides, Type B	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	
H241	Heating may cause a fire or explosion	
H300	Fatal if swallowed	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H360	May damage fertility or the unborn child	





Safety Data Sheet according to the Model Work Health and Safety Regulations

SDS_AU_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.