

according to regulation (EU) No. 1907/2006

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1. Identification of the substance/mixtu	re and of the company/underta	iking *			
1.1. Information on the product Trade name: UFI:	pico-splint star XMDW-M0DV-M008-QERY				
1.2. Relevant identified uses of the substance/mixture and uses that are inadvisable					
Use of the substance/mixture	Light curing one-component material of individual moulded parts	for manufacturing			
1.3. Details about the supplier of the safety data Manufacturer/Supplier:	sheet				
Company name: Street: City: Telephone: E-Mail: Internet:	DETAX GmbH & Co. KG Carl-Zeiss-Strasse D-76275 Ettlingen +49 7243 510-0 post@detax.de www.detax.de	Telefax: +49 7243 510-100			
Responsible Department:	Emergency number: +49 7243 510-0 This number is only obtainable during office hours (Monday - Thursday 8.00 a.m 5.00 p.m., Friday 8.00 a.m 4.00 p.m.)				
Distribution:	picodent GmbH Lüdenscheider Str. 24-26 D-51688 Wipperfürth	Telephone: +49 2267 6580-0 MoFr. 7.30 - 16.45 Uhr picodent@picodent.de			
1.4. Emergency contact number:	Telephone +49 7243/510-0 This number is only obtainable during (Monday - Thursday 8.00 a.m 5.00 p Friday 8.00 a.m 4.00 p.m.)				
2. Hazards identification *					
2.1. Classification of the substance or mixture Regulation (EC) No. 1272/2008 Hazard categories: Respiratory or skin sensitisation: Hazardous to the aquatic environment: Hazard Statements:	Skin Sens. 1 Aquatic Chronic 2 May cause an allergic skin reaction. Toxic to aquatic life with long lasting e	ffects.			
2.2. Label elements Regulation (EC) No. 1272/2008 Hazard components for labelling	7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3				

7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5, 12-diazahexadecane-1,16-diyl bismethacrylate Tricyclodecane dimethanol diacrylate diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

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Signal word	:	Warning	
Pictograms	:	^ ^	
Hazard state H317 H411	e ments May cause an allergic skin reaction. Harmful to aquatic life with long lasti	ng effects.	
Precautiona	ry statements		
P261	Avoid breathing dust/fume/gas/mist/	vapours/spray.	
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clo	othing/eye protection/face protection.	
P302+P352	IF ON SKIN: Wash with plenty of wat	er.	
P333+P313	If skin irritation or rash occurs: Get m	edical advice/attention.	

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P501 Dispose of contents/ container in accordance with legal and national regulations.

2.3. Other hazards

No information available.

3. Composition/information on ingredients *

3.2. Mixtures Chemical characterization

Mixture of acrylic/ methacrylic resins with auxilliary matters.

Hazardous components

CAS No	Chemical name			Quantity
	EC No Classification according to Regula	Index No ation (EC) No. 1272/2008 [C	REACH No LP]	
72869-86-4	7,7,9 (or 7,9,9)-trimethyl-4,13-dio 12-diazahexadecane-1,16-diyl bis			60 - < 65 %
	255-901-3 Skin Sens. 1B, Aquatic Chronic 2	; H317 H411	01-2120051112-76	
42594-17-2	Tricyclodecane dimethanol diacry	rlate		10 - < 15 %
	255-901-3 Skin Sens. 1B, Aquatic Chronic 2	; H317 H411	01-2120051112-76	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)p 278-355-8 Repr. 2, Skin Sens. 1B, Aquatic C	015-203-00-X		< 1 %

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

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4. First aid measures

4.1. Description of first aid measures After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

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After contact with skin	After contact with skin, wash immediately with polyethy followed by plenty of water. Take off immediately all con clothing and wash it before reuse. Medical treatment ne	taminated
After contact with eyes	Rinse immediately carefully and thoroughly with eye-bat case of eye irritation consult an ophthalmologist.	th or water. In
After ingestion	Rinse mouth immediately and drink plenty of water. Seek immediately medical advice. Do not induce vomitin spontaneous vomiting take care of an unhindered flow of vomit (danger of suffocation).	
4.2. Most important symptoms and effects, both acute and delayed	No information available.	
4.3. Indication of any immediate medical attenti and special treatment needed	on Treat symptomatically.	
5. Firefighting measures		
5.1. Extinguishing media Suitable extinguishing media	Co-ordinate fire-fighting measures to the fire surroundin	gs.
5.2. Special hazards arising from the substance or mixture	Non-flammable.	
5.3. Advice for firefighters	Wear a self-contained breathing apparatus and chemica clothing. Full protection suit.	al protective
Additional information	Suppress gases/vapours/mists with water spray jet. Col contaminated fire extinguishing water separately. Do not allow entering drains or surface water.	lect
6. Accidental release measures		
6.1. Personal precautions, protective equipmen and emergency procedures	t Provide adequate ventilation. Do not breathe gas/fumes spray. Avoid contact with skin, eyes and clothes. Use po protection equipment.	
6.2. Environmental precautions	Do not allow to enter into surface water or drains.	
6.3. Methods and material for containment and cleaning up	Take up mechanically. Treat the recovered material as put the section on waste disposal.	rescribed in
6.4. Reference to other sections	Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13	

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7. Handling and storage *		
7.1. Precautions for safe handling Advice on safe handling	No special measures are necessary.	
Advice on protection against fire and explosion	No special fire protection measures are necessary.	
7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels Hints on joint storage Further information on storage conditions	Keep container tightly closed. Keep away from spontaneous flammable or combustibl Keep only in the original container in a dry and well-ven away from foodstuffs. Keep away from all kind of ligth. blanket should not be applied, because the stability of t depends on the presence of oxygen (air).	tilated place, An inert gas
7.3. Specific end use(s)	Ligth curing material for manufacturing of dental mould use by trained special staff.	ed parts; for
8. Exposure controls/personal protection	on	
8.1. Control parameters 8.2. Exposure controls Protective and hygiene measures	Remove contaminated, saturated clothing immediately. observe skin protection programme. Wash hands and fa breaks and after work and take a shower if necessary . do not eat or drink.	ace before
Eye/face protection	Wear eye/face protection.	
Hand protection	When handling with chemical substances, protective gloworn with the CE-label including the four control digits. the protective gloves resistant to chemicals must be chefunction of the specific working place concentration and hazardous substances. For special purposes, it is reconcheck the resistance to chemicals of the protective glove above together with the supplier of these gloves. Suitable are gloves of the following material: Butyl caourubber)	The quality of osen as a d quantity of nmended to res mentioned
Skin protection Respiratory protection	Wear suitable protective clothing. In case of inadequate ventilation wear respiratory protection	ction.



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Safety Data Sheet

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9. Physical and chemical properties		
9.1. Information on basic physical and chemic	al properties	
Physical state:	liquid	
Colour:	several shades, according to the	product name
Odour:	faintly like esters	
pH-Value:	not determined	Test method
Changes in the physical state	not determined	
Melting point:	not determined	
Initial boiling point and boiling range:	not determined	
Flash point:	>100 °C	DIN 51755
Flammability	>100 0	BIN 31733
Solid:	not determined	
Gas:	not applicable	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Auto-ignition temperature	not determined	
Solid:	not determined	
Gas:	not applicable	
Decomposition temperature:	>190 °C	
Oxidizing properties	>190 0	
Not oxidizing.		
Vapour pressure: (at 20 °C)	<1 hPa	
Density (at 20 °C):	1,09 g/cm ³	DIN 51757
	practically insoluble	DIN 51757
Water solubility:	practically insoluble	
Solubility in other solvents		
not determined Partition coefficient:	not determined	
	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	
9.2. Other information		
Solid content:	not determined	
10. Stability and reactivity		
10.1. Reactivity	No hazardous reaction when hand provisions.	dled and stored according to
10.2. Chemical stability	The product is stable under stora	ge at normal ambient temperature
10.3. Possibility of hazardous reactions	Reacts with : strong oxidising age materials.	ents, strong alcaline or acidic
10.4. Conditions to avoid	oxidising agents, radicals forming	substances or heavy metal ions.
	Ultra-violet ligth and dayligth initia Therefore keep only in tigthly clos sources of ligth at 15°C - 28°C / 5	ate polymerisation of the product. ed containers away from any
10.5. Incompatible materials	No information available.	
10.6. Hazardous decomposition products	In case of fire, acrid acrylic fumes	may occur.



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11. Toxico	logical information *					
11.1. Inform Acute toxicit	ation on toxicological effects ty	Based on available data, the classification criteria are not met. For the product itself no toxicological data are available. In products with a comparable composition, a LD50 (orally, species rat) of > 5000 mg/kg has been found.				
CAS No	Chemical name					
	Exposure route	Dose		Species	Source	
72869-86-4	7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo 12-diazahexadecane-1,16-diyl bisn	nethacrylate				
	oral dermal	LD50 >5000 mg/ LD50 >5000 mg/			OECD 401 OECD 402	
42594-17-2	Tricyclodecane dimethanol diacryla	-	5			
	oral	LD50 >2000 mg/	′kg	Rat	OECD 423	
	dermal	LD50 >2000 mg/	′kg	Rat	OECD 402	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)pho					
	oral	LD50 >5000 mg/		Rat		
	dermal	LD50 >2000 mg/	кд	Rat		
reproduction STOT-single STOT-repeat Aspiration hadditional in	effects c/mutagenic/toxic effects for exposure ted exposure azard formation on tests	May cause an alle 13-dioxo-3,14-dio (Tricyclodecane di trimethylbenzoyl)p Based on availabl Based on availabl Based on availabl Based on availabl	rgic skin re ixa-5, 12-d imethanol o ohosphine o e data, the e data, the e data, the e data, the ssified as h	classification criteria baction. 7,7,9 (oder 7, iazahexadecan-1,16- diacrylate); diphenyl(2 oxide) classification criteria classification criteria classification criteria classification criteria hazardous according	9,9)-Trimethyl-4, diylbismethacrylat 2,4,6 are not met. are not met. are not met. are not met. are not met.	
12. Ecolog	jical information *					
12.1. Toxicit	у	Harmful to aquatic in the aquatic env	-	s, may cause long-te	rm adverse effects	
CAS No	Chemical name	Dose	[b] [d]	Species	Source	
72869-86-4	Aquatic toxicity		[h] [d]	opecies	Source	
12009-80-4	7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo 12-diazahexadecane-1,16-diyl bisn					
	Akute Crustaceatoxizität	EC50 >1,2 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
42594-17-2	Tricyclodecane dimethanol diacryla	te				
	Acute fish toxicity	LC50 1,65 mg/l	96 h	Brachydanio rerio (zebra-fish)	OECD 203	
	Acute algae toxicity	ErC50 1,6 mg/l	72 h	Pseudokirchneriella subcapitata	a OECD 201	
	Acute crustacea toxicity	EC50 2,36 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	

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CAS No	Chemical name						
0.10110	Aquatic toxicity	Dose		[h] [d]	Species		Source
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phos	sphine oxid	е				
	Acute algae toxicity Acute crustacea toxicity Acute bacteria toxicity	ErC50 >2 EC50 3,5 (>1000 m	3 mg/l	72 h 48 h 3 h	Scenedesmus subspicatus Daphnia magna (Big water flea) Activated sludge		
	tence and degradability has not been tested.						
CAS No	Chemical name						
	Method Evaluation				Value	d	Source
42594-17-2	Tricyclodecane dimethanol diacrylate						
	OECD 301F/ ISO 9408/ EEC 92/69/ Not readily biodegradable (according		criteria)		28%	28	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phos	sphine oxid	е				
	0-10% 28 Not readily biodegradable (according to OECD criteria)						
12.3. Bioaccumulative potential The prod				ot been tes	sted.		
Partition coefficient n-octanol/water							
CAS No	Chemical name						Log Pow
42594-17-2 75980-60-8	Tricyclodecane dimethanol diacrylat diphenyl(2,4,6-trimethylbenzoyl)photo		le				4,64 3,1
							.,.
BCF							
CAS No	Chemical name		BCF	Species			Source
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)pho oxide	sphine	47-55	Cyprinus (Commo			
12.4. Mobilit	ty in soil	The product has not been tested.					
12.5. Result	s of PBT and vPvB assessment	Not identivied as PBT/ vPvB substances					
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.					
13. Disposal considerations *							
13.1. Waste Disposal rec	enter into	soil/sub		face water or se of waste ac		o not allow to to applicable	
Contaminated packaging			aminated		may be recyc the substanc		dle contaminated

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14. Transport information *						
Land transport (ADR/RID)						
14.1. UN number:	UN 3082					
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.C Contains: 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5, 12-diazahexadecane-1,16-diyl bismethacrylate					
14.3. Transport hazard class(es):	9					
14.4. Packing group:	III					
Hazard label:	9					
Classification code:	M6					
Special Provisions:	274, 335, 375, 601					
Limited quantity:	5 L/ 30kg					
Excepted quantity:	E1					
Transport category:	3					
Hazard No:	90					
Tunnel restriction code:	-					
Other applicable information (land transpor Contains: 7,7,9 (or 7,9,9)-trimethyl-4,13-die		6-diyl bismethacrylate				
Marine transport (IMDG)						
14.1. UN number:	UN 3082					
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS Contains: 7,7,9 (or 7,9,9)-trimethyl-4 12-diazahexadecane-1,16-diyl bism	,13-dioxo-3,14-dioxa-5,				
14.3. Transport hazard class(es):	9					
14.4. Packing group:	III					
Hazard label:	9					
Marine pollutant:	YES					
Special Provisions:	274, 335, 969					
Limited quantity:	5L/ 30kg					
Excepted quantity:	E1					
EmS:	F-A, S-F					
Other applicable information (marine transp Contains: 7,7,9 (or 7,9,9)-trimethyl-4,13-dia Flash point: >100°C	port) pxo-3,14-dioxa-5,12-diazahexadecane-1,10	6-diyl bismethacrylate				
Air transport (ICAO-TI/IATA-DGR)						
14.1. UN number:						
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS Contains: 7,7,9 (or 7,9,9)-trimethyl-4 12-diazahexadecane-1,16-diyl bism	,13-dioxo-3,14-dioxa-5,				
14.3. Transport hazard class(es):	9	-				
14.4. Packing group:	III					
Hazard label:	9					
Special Provisions:	A97, A158, A197					
Limited quantity Passenger:	30 kg G					
Passenger LQ:	Y964					
Excepted quantity:	E1					
IATA-packing instructions - Passenger: :	964					
IATA-max. quantity - Passenger:	450 L					
	964					
IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	450 L					

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Other applicable information (air transport) Contains: 7,7,9 (or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate						
14.5. Environmental hazards: ENVIRONMENTALLY HAZARDOUS	Yes					
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					
15. Regulatory information *						
15.1. Safety, health and environmental regulation specific for the substance or mixture National regulatory information	ns/legislation					
Employment restrictions:	Observe restrictions to employment for juvenils accordin 'juvenile work protection guideline' (94/33/EC).	ig to the				
Water contaminating class (D):	3 - strongly hazardous to water					
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.					
15.2. Chemical safety assessment	Chemical safety assessments for substances in this mix carried out.	ture were not				
16. Other information *						
Abbreviations and acronyms	adia sa daga san uga nan Dauta					

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

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

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

- H317 May cause an allergic skin reaction.
- H361f Suspected of damaging fertility.
- H411 Toxic to aquatic life with long lasting effects.

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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.

Identified uses

Nr.	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Spezification
1	commercial	-	-	-	-	-	-	-	2

LCS: Life cycle stages PC: Product categories ERC: Environmental release categories TF: Technical functions SU: Sectors of use PROC: Process categories AC: Article categories

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

* Data compared to the previous version Rev.-No. 3.03 altered.



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