

according to Regulation (EC) No 1907/2006

SHERAprint-tray clear

Revision date: 21.11.2023

Product code: 1701030

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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:

YR40-00QX-D00G-7J0M

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

Use of the substance/mixture

Light curing resin for additive manufacturing of individual trays

1.3. Details of the supplier of the safety data sheet

1.5. Details of the supplier of the	Salely uala Sheel	
Company name:	DeltaMed GmbH	
Street:	Raiffeisenstraße 8a	
Place:	61169 Friedberg (GER)	
Telephone:	+49 6031 7283-0	Telefax: +49 6031 7283-29
E-mail:	info@deltamed.de	
Internet:	www.deltamed.de	
Responsible Department:	F&E	
	Telefax +49 6031 7283-29	
1.4. Emergency telephone	Giftinformationszentrum Universitätsl	klinikum Mainz
number:	Telefon +49 6131 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Dimethacrylate acrylic-resin acrylic resin

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) Warning

Signal word:

Pictograms:

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

oouullonul y oluloi	
P261	Avoid breathing dust/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.



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P333- P391 P501	+P313	If skin irritation or rash occurs: Get medical a Collect spillage. Dispose of contents/container in accordance		
Special la	abelling of cert			
		Restricted to professional users.		
•	erization with h	neat evolution may occur in the presence of rac , and/or heavy metal ions.	Jical forming substances (e.g. per	oxides),
SECTION 3	: Compositio	n/information on ingredients		
	components			Quartita
CAS No	Chemical nan	ne		Quantity
	EC No	Index No	REACH No	
		(Regulation (EC) No 1272/2008)		
	Dimethacrylat			< 70 %
		3, Aquatic Chronic 2; H317 H411		
	acrylic-resin			< 40 %
		kin Sens. 1B, Aquatic Chronic 2; H315 H317 H411		< 00 V/
	acrylic resin	3, Aquatic Chronic 2; H317 H411		< 20 %
5187-23-5		oxane-5-methanol		1 - < 5 %
5107-23-5	Eye Irrit. 2; H			1-> 5 %
75980-60-8	-	6-trimethylbenzoyl)phosphine oxide (TPO)		
10000-00-0				< 1 %
	278-355-8	015-203-00-X		< 1 %

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

Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Cond	c. Limits, M-factors and ATE	
		Dimethacrylate	< 70 %
	dermal: LD5	0 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
		acrylic-resin	< 40 %
	dermal: LD5	0 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
		acrylic resin	< 20 %
	dermal: LD5	0 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
5187-23-5		5-ethyl-1,3-dioxane-5-methanol	1 - < 5 %
	oral: LD50 =	> 2000 mg/kg	
75980-60-8	278-355-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)	< 1 %
	dermal: LD5	0 = >2000 mg/kg; oral: LD50 = > 5000 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures



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General information

Get medical advice/attention if you feel unwell. Immediately remove any contaminated clothing, shoes or stockings.

After inhalation

Get medical advice/attention if you feel unwell. Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation persists: Get medical advice/attention.

After ingestion

Do NOT induce vomiting. Medical treatment necessary.

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

No information available.

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 Carbon dioxide

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide Hazardous decomposition products

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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

General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal 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

Other information

Larger quantities: Take up mechanically (by pumping). Smaller quantities and/or residues: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Do not breathe gas/fumes/vapour/spray. Provide fresh air.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin. 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 or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.

Hints on joint storage

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent				
DNEL type		Exposure route	Effect	Value	
75980-60-8	30-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)				
Worker DNEL,	long-term	dermal	systemic	0,233 mg/kg bw/day	
Consumer DNE	EL, long-term	inhalation	systemic	0,145 mg/m³	
Consumer DNE	EL, long-term	oral	systemic	0,0833 mg/kg bw/day	

PNEC values

CAS No	Name of agent				
Environmental	compartment	Value			
75980-60-8	75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)				
Marine water	Marine water 0,00014 mg/l				
Freshwater see	Freshwater sediment 0,115 mg/kg				
Marine sediment		0,0115 mg/kg			
Soil		0,0222 mg/kg			

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection

Hand protection

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

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Skin protection

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Ph	ysical state:	Liquid	
Co	lour:	pink	
Od	lour:	No data available	
	elting point/freezing point:		not determined
Во	iling point or initial boiling point and		not determined
	iling range:		
	ammability:		flammable liquids
Lo	wer explosion limits:		not determined
Up	per explosion limits:		not determined
Fla	ash point:		> 150 °C
Au	to-ignition temperature:		not determined
De	composition temperature:		not determined
pН	I-Value:		not determined
Wa	ater solubility:		not determined
So	lubility in other solvents		
	not determined		
Pa	rtition coefficient n-octanol/water:		not determined
Va	pour pressure:		not determined
	ensity (at 20 °C):		1,1 g/cm³
	lative vapour density:		not determined
Pa	rticle characteristics:		not applicable
<u>9.2. O</u>	ther information		
	ormation with regard to physical haza	ard classes	
Se	If-ignition temperature		
	Solid:		not applicable
	Gas:		not applicable
Ot	her safety characteristics		
Ev	aporation rate:		not determined
So	lid content:		not determined
Vis	scosity / dynamic:		500 - 1000 mPa·s

Further Information

Product has not been tested. The statement is derived from the properties of the components.

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

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

10.4. Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C. Can polymerize with intense heat release.



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10.5. Incompatible materials

Oxidising agent, Reducing agent, Heavy metals, Acids Alkali (lye)

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

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	
	Dimethacrylate						
	oral	LD50 mg/kg	>5000	Rat	OECD 401		
	dermal	LD50 mg/kg	>2000	Rat	OECD 402		
	acrylic-resin						
	oral	LD50 mg/kg	> 2000	Rat		OECD 423	
	dermal	LD50 mg/kg	> 2000	Rat		OECD 402	
	acrylic resin						
	oral	LD50 mg/kg	> 2000	Rat	OECD 423		
	dermal	LD50 mg/kg	> 2000	Rat	OECD 402		
5187-23-5	5-ethyl-1,3-dioxane-5-me	ethanol					
	oral	LD50 mg/kg	> 2000	Rat	OECD 401		
75980-60-8							
	oral	LD50 mg/kg	> 5000	Rat	ECHA	OECD 401	
	dermal	LD50 mg/kg	>2000	Rat	ECHA		

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

May cause an allergic skin reaction. (Dimethacrylate; acrylic-resin; acrylic resin; Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)) May cause sensitization by skin contact.

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.



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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.

11.2. Information on other hazards

Further information

The product has not been tested. The statement is derived from the properties of the single components.

SECTION 12: Ecological information

12.1. Toxicit	Y							
CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
	Dimethacrylate							
	Acute fish toxicity	LC50 mg/l	10,1	96 h	Danio rerio (zebrafish)			
	Acute algae toxicity	ErC50 mg/l	>0,68	72 h	Desmodesmus subspicatus	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	>1,2	48 h	Daphnia magna (Big water flea)			
	acrylic-resin				-			
	Acute fish toxicity	LC50	4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)			
	Acute algae toxicity	ErC50	34 mg/l	72 h		OECD 201		
	Acute crustacea toxicity	EC50	20 mg/l	48 h		OECD 202		
	acrylic resin							
	Acute fish toxicity	LC50 mg/l	1,65	96 h	Danio rerio (zebrafish)	OECD 203		
	Acute algae toxicity	ErC50	1,6 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201		
	Acute crustacea toxicity	EC50 mg/l	2,36	48 h	Daphnia magna (Big water flea)	OECD 202		
5187-23-5	5-ethyl-1,3-dioxane-5-methanol							
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Danio rerio (zebrafish)			
	Acute algae toxicity	ErC50 mg/l	>1000	72 h				
	Acute crustacea toxicity	EC50 mg/l	2466	48 h	Daphnia magna (Big water flea)			
75980-60-8	Diphenyl(2,4,6-trimethylb	enzoyl)phos	phine oxide	(TPO)				
	Acute fish toxicity	LC50	1,4 mg/l	96 h	Cyprinus carpio (Common Carp)	ECHA	OECD 203	
	Acute algae toxicity	ErC50 mg/l	>2,01	72 h	Daphnia magna (Big water flea)	ECHA	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	3,53	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202	
	Acute bacteria toxicity	(EC50 mg/l)	>1000	3 h	Activated sludge	ECHA	OECD 209	

12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation	-					
	Dimethacrylate						
	Biodegradation 22 % 28 OECD 301 F						
	acrylic resin						
	OECD 301 F	27 %	56				
	Not readily biodegradable (according to OECD criteria)						
5187-23-5	5-ethyl-1,3-dioxane-5-methanol						
		> 90%	28				
	Readily biodegradable (according to OECD criteria).						
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)						
	OECD 301 F	0-10 %	28				
	Not readily biodegradable (according to OECD criteria)						

12.3. Bioaccumulative potential

The product has not been tested.

BCF

CAS No	Chemical name	BCF	Species	Source
	Diphenyl(2,4,6-trimethylbenzoyl)phosph ine oxide (TPO)	47-55		

12.4. Mobility in soil

The product has not been tested.

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. The product has not been tested.

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 information available.

Further information

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

List of Wastes Code - used product

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

List of Wastes Code - contaminated packaging



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	C CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic es; other still bottoms and reaction residues; hazardous waste			
Contaminated packaging This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.				
SECTION 14: Transport information				
Land transport (ADR/RID)				
<u>14.1. UN number or ID number:</u>	UN 3082			
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.			
	(ACRYLIC RESIN)			
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			
Excepted quantity:	E1			
Transport category:	3			
Hazard No:	90 E			
Tunnel restriction code:	—			
Other applicable information (land transp				
	ed in single or combination packagings of a net quantity not exceeding 5 eding 5 kg of solids per single or combination packaging, are not subject			
-	d 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.	a the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and			
-				
Inland waterways transport (ADN)				
14.1. UN number or ID number:				
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLIC RESIN)			
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			
Excepted quantity:	E1			
Marine transport (IMDG)				
14.1. UN number or ID number:	UN 3082			
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.			
44.9 Trepenent hereit alars (as);	(ACRYLIC RESIN)			
14.3. Transport hazard class(es):	9			
14.4. Packing group:				
Hazard label:	9			
Special Provisions:	274, 335, 969			
Limited quantity:	5 L E1			
Excepted quantity: EmS:	E1 F-A, S-F			
	ו-ס, א- ו			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	UN 3082			
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.			
14.9 Troporout boyand class (as)	(ACRYLIC RESIN)			
14.3. Transport hazard class(es):	9			



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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	
IATA-packing instructions - Cargo:		964	
IATA-max. quantity - Cargo:		450 L	
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	Yes		
Danger releasing substance:	ACRYLIC RESIN		
14.7. Maritime transport in bulk according to not applicable	to IMO instruments		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	ulations/legislation spe	ecific for the substance or mixture	
EU regulatory information			
Authorisations (REACH, annex XIV):			
Substances of very high concern, SVI	HC (REACH, article 59)		
Diphenyl(2,4,6-trimethylbenzoyl)phos			
Restrictions on use (REACH, annex XVII)	•		
Entry 3, Entry 75			
National regulatory information			
Water hazard class (D):	2 - obviously hazard	ous to water	
15.2. Chemical safety assessment			
Chemical safety assessments for sub	stances in this mixture v	vere not carried out.	
,			

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,16. Changes in the name of the company.



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Abbreviations and acronyms

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% Skin Irrit: Skin irritation Eye Irrit: Eye irritation Skin Sens: Skin sensitisation Repr: Reproductive toxicity Aquatic Chronic: Chronic aquatic hazard

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H411	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.)