

according to UK REACH Regulation

CreaPRINT Cast

Revision date: 09.06.2022

Product code: CreaCast

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

1.1. Product identifier

CreaPRINT Cast

UFI:

U0E0-C10S-WD7V-5W15

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

Use of the substance/mixture

Material for the manufacture of dental laboratory products.

Uses advised against

Direct manufacture of medical devices

1.3. Details of the supplier of the safety data sheet

Company name:	Merz Dental GmbH	
Street:	Kieferweg 1	
Place:	D-24321 Lütjenburg (GERMANY)	
Telephone:	+49-(0)4381-403-0	Telefax: +49-(0)4381-403-100
e-mail:	info@merz-dental.de	
Contact person:	Dipl. Chem Dr. Thomas Panther	Telephone: +49-(0)4381-403-448
e-mail:	Thomas.Panther@merz-dental.de	
Internet:	www.merz-dental.de	
Responsible Department:	Qualitätssicherung (Quality Assurance)	
1.4. Emergency telephone	+49-(0)551-19240 (Giftinformationszentru	m-Nord)

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Sens. 1; H317 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Diurethane dimethacrylate, Mix of isomers (UDMA) 2-[[(butylamino)carbonyl]oxy]ethyl acrylate Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO) propoxylatedglycerol triacrylate Warning

Signal word:

Pictograms:



Hazard statements

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

	-
P102	Keep out of reach of children.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.



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CreaPRINT Cast Revision date: 09.06.2022 Product code: CreaCast Page 2 of 10 P273 Avoid release to the environment. P280 Wear protective gloves and eye/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Findings: Damage to mucous membranes in the nose at 400 ppm

Hazardous components

CAS No	Chemical name			Quantity		
	EC No	Index No	REACH No			
	Classification (GB CLP Regulation)					
72869-86-4	Diurethane dimethacrylate, Mix of is	somers (UDMA)		50 - < 100 %		
	Skin Sens. 1, Aquatic Chronic 3; H3	317 H412				
63225-53 -6	2-[[(butylamino)carbonyl]oxy]ethyl acrylate					
	Skin Irrit. 2, Eye Irrit. 2; H315 H319					
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)pho	osphine oxide (TPO)		1 - < 5 %		
	278-355-8	015-203-00-X				
	Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361f H317 H411					
52408-84-1	propoxylatedglycerol triacrylate					
	Eye Irrit. 2, Skin Sens. 1; H319 H31	7				

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Quantity				
	Specific Conc. Limits, M-factors and ATE					
63225-53 -6		2-[[(butylamino)carbonyl]oxy]ethyl acrylate				
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg					
75980-60-8	278-355-8	8-355-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)				
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg					

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

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

After contact with skin

IF ON SKIN: Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of of water.



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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.

Treat symptomatically:

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.3. Advice for firefighters

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

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

For cleaning up

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.

Other information

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

SECTION 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.

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 or drink.

Further information on handling

Sensitivity to light (photosentive).

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep container tightly closed. Sensitivity to light (photosentive). Heat (> 30 °C) or UV light should be avoided in order to prevent a spontaneous and explosive polymerisation and also to prevent the accompanying generation of heat. none UV-radiation/sunlight. Can polymerise exothermically if heated, exposed to air, sunlight or by addition or free radical initiators. Avoid high temperatures or direct sunlight.

Hints on joint storage

No special measures are necessary.

7.3. Specific end use(s)

Material for the manufacture of dental laboratory products.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour:	Liquid violet		
Odour:	characteristic		
			Test method
Changes in the physical state			
Melting point/freezing point:		not determined	
Boiling point or initial boiling point and boiling range:	I	251 - 260 °C	EEC A.2
Flash point:		> 200 °C	ASTM D 7094
Flammability			



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Solid/liquid:	not applicable		
Gas:	not applicable		
Explosive properties The product is not: Explosive.			
Auto-ignition temperature:	410 °C		
Decomposition temperature:	not determined		
Viscosity / dynamic:	1000 mPa·s	OECD 114	
Solubility in other solvents not determined			
Partition coefficient n-octanol/water:	not determined		
Vapour pressure: (at 20 °C)	0,0032 hPa		
Density:	1,09 g/cm³	DIN 51757	
9.2. Other information			
Information with regard to physical hazard classe	s		
Oxidizing properties The product is not: oxidising.			
Further Information			
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

In the presence of radical formers (e.g. peroxides, persulfates), reducing or oxidising substances and/or heavy metal ions and other polymerisation initiators as well as polymethyl methacrylates (polymer powder), polymerisation takes place under heat generation.

10.4. Conditions to avoid

UV-radiation/sunlight.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation



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Acute toxicity

CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
63225- 53-6	2-[[(butylamino)carbonyl]c	2-[[(butylamino)carbonyl]oxy]ethyl acrylate								
	oral	LD50 > mg/kg	> 2000	Rat oral	Lieferant	OECD 401				
	dermal	LD50 > mg/kg	> 2000	Rabbit oral	Lieferant	OECD 402				
75980-60-8	Diphenyl(2,4,6-trimethylbe	enzoyl)phosph	iine oxide (TPO)						
	oral	LD50 > mg/kg	> 5000	Rat	REACH Dossier	OECD 401				
	dermal	LD50 > mg/kg	> 2000	Rat	REACH Dossier	OECD 402				

Further information

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
72869-86-4	Diurethane dimethacrylate	e, Mix of isoi	mers (UDMA	l)					
	Acute fish toxicity	LC50 mg/l	10,1	96 h	Danio rerio (zebrafish)	Merck	OECD 203		
63225- 53-6	2-[[(butylamino)carbonyl]c	2-[[(butylamino)carbonyl]oxy]ethyl acrylate							
	Acute fish toxicity	LC50 mg/l	3348	96 h	Pimephales promelas (fathead minnow)	EpiSuite QSAR tool	Quantitative structure-activity relationship (QSAR)		
	Acute algae toxicity	ErC50 mg/l	0,294		Pseudokirchneriella subcapitata s.	EpiSuite QSAR tool	Quantitative structure-activity relationship (QSAR)		
	Acute crustacea toxicity	EC50 mg/l	7306	48 h	Daphnia magna (Big water flea)	EpiSuite QSAR tool	Quantitative structure-activity relationship (QSAR)		

12.2. Persistence and degradability

The product has not been tested.



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CAS No	Chemical name							
	Method	Value	d	Source				
	Evaluation	Evaluation						
72869-86-4	Diurethane dimethacrylate, Mix of isomers (UDMA)							
	OECD 301 B	22%	28	Merck				
	Not readily biodegradable (according to OECD criteria)							
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)							
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C 0 - 10 % 28 REACH Dossier							
	Not readily biodegradable (according to OECD criteria)							

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No Chemical name		Log Pow
63225-53-6	2-[[(butylamino)carbonyl]oxy]ethyl acrylate	1.82
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)	3,1

BCF

CAS No	Chemical name	BCF	Species	Source
	2-[[(butylamino)carbonyl]oxy]ethyl acrylate	7,325	n/n	EpiSuite QSAR tool
	Diphenyl(2,4,6-trimethylbenzoyl)phosph ine oxide (TPO)	18 -55	Cyprinus carpio (Common Carp)	REACH Dossier

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 UK REACH.

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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SECTION 14: Transport information

Land transport (ADR/RID)					
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.				
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
Inland waterways transport (ADN)					
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.				
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
Marine transport (IMDG)					
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.				
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
Air transport (ICAO-TI/IATA-DGR)					
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.				
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
14.5. Environmental hazards					
ENVIRONMENTALLY HAZARDOUS:	No				
14.6. Special precautions for user					
No information available.					
14.7. Maritime transport in bulk according to	IMO instruments				
not applicable					
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 3, Entry 75					
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)				
(SEVESO III):					
National regulatory information					
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile				
	work protection guideline' (94/33/EC).				
Water hazard class (D):	3 - highly hazardous to water				
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.				
15.2. Chemical safety assessment					
Chemical safety assessments for substances in this mixture were not carried out.					

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.



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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% 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 DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOFC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative 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) EmS: Emergency Schedules MFAG: Medical First Aid Guide 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). Key literature references and sources for data supplier (manufacturer/importer/downstream user/distributor) **ECHA** Classification for mixtures and used evaluation method according to GB CLP Regulation Classification Classification procedure Skin Sens. 1; H317 Calculation method

Relevant H and EUH statements (number and full text)

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of damaging fertility.
Toxic to aquatic life with long lasting effects.

Calculation method

Aquatic Chronic 3; H412



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H412

Harmful to aquatic life with long lasting effects.

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