

Printing date: 19.12.2022

according to Regulation (EC) No 1907/2006

Revision date: 07.12.2018 Revision No: 2,04

HinriPrint cast UV

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

1.1 Product identifier

Tradename: HinriPrint cast UV

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

Relevant identified uses: Light curing resin for the generative fabrication of cast

objects using precision casting technology

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: ERNST HINRICHS Dental GmbH

 Street / mailbox:
 Borsigstr. 1

 Country code. / postal code / city:
 D - 38644 Goslar

 Phone:
 0 53 21 / 5 06 24

 Fax:
 0 53 21 / 5 08 81

E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de

Further information obtainable from: ERNST HINRICHS Dental GmbH

1.4 Emergency telephone number

ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008:

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes serious eye irritation. May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2 Label elements

Regulation (EC) No 1272/2008:

Hazard components for labelling: aliphatic urethane acrylate

tripropyleneglycol diacrylate

tetrahydrofurfuryl methacrylate THFMA purified grade diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Signal word: Warning

Hazard pictograms:

Hazard statements:

H317 May cause an allergic skin reaction.
H319 Causes serious eve irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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P333+P313

If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

P362+P364 P501:

Dispose of contents/container in accordance with local/regional/national/international

regulations.

2.3 Other hazards

No information available.

SECTION 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	Index No	REACH No	-
	Classification according to	Regulation (EC)	No. 1272/2008 [CLP]	
	acrylated resin		-	10-40 %
	Eye Irrit. 2; H319			
108-32-7	propylene carbonate			10-30 %
	203-572-1	607-194-00-1	01-2119537232-48	
	Eye Irrit. 2; H319			
	aliphatic urethane acrylate)		1-10 %
	906-949-5		01-2120266262-	
	Skin Sens. 1B, Aquatic Ch			
42978-66-5	tripropyleneglycol diacryla	te		1-10 %
	256-032-2		01-2119484613-34	
	Skin Irrit. 2, Eye Irrit. 2, Sk H315 H319 H317 H335 H			
2455-24-5	tetrahydrofurfuryl methacr	1-15 %		
	Repr. 2, Skin Irrit. 2, Eye I H315 H319 H317 H335			
75980-60-8	diphenyl(2,4,6-trimethylbe	0,1-5 %		
	278-355-8	015-203-00-X		
	Repr. 2, Skin Sens. 1B, A			
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide			0,1-5 %
	423-340-5	015-189-00-5	01-2119489401-38	
	Skin Sens. 1, Aquatic Chronic 4; H317 H413			

Additional information:

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

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 skin contact: After contact with skin, wash immediately with polyethylene

glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical

treatment necessary.

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or

water. In case of eye irritation consult an ophthalmologist.

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After ingestion:

Rinse mouth immediately and drink plenty of water.

Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered

flow out of the 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

attention and special treatment needed:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

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

5.2 Special hazards arising from the

substance or mixture:

Non-flammable.

5.3 Advice for firefighters Wear a self-contained breathing apparatus and chemical

protective clothing. Full protection suit.

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:

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:

Take up mechanically. 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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and

vessels:

Keep container tightly closed.

Advice on storage compatibility:

Keep away from spontaneous flammable or combustible

substances.

Further information on storage conditions:

Keep only in the original container in a dry and wellventilated place, away from foodstuffs. Keep away from all kind of light. An inert gas blanket should not be applied,

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because the stability of the product depends on the

presence of oxygen (air).

7.3 Specific end use(s) Light-curing resin for the generative fabrication of cast

objects using precision casting technology For use by

trained specialist staff.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls:
Protective and hygiene measures:

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.

Eye/face protection: Suitable eye protection: goggles.

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.

Suitable are gloves of the following material: Butyl

caoutchouc (butyl rubber)

Skin protection: Wear suitable 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: Liquid.

Colour:red - transparentOdour:faintly like esters

Test method

pH: not determined

Changes in the physical state:

Melting point: not determined not determined not determined

Flash point: >100 °C DIN 51755

Flammability

Solid: not determined
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined
Gas: not applicable
Decomposition temperature: >=190 °C
Oxidizing properties Not oxidizing.
Vapour pressure (at 20 °C): <1 hPa

Density (at 20 °C): 1,12 g/cm³ DIN 51757

Water solubility (at 20 °C): practically insoluble

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Solubility in other solvents:not determinedPartition coefficient:not determinedVapour density:not determinedEvaporation rate:not determined

9.2 Other information

Solid content: not determined

SECTION 10: Stability and reactivity

10.1 Reactivity:No hazardous reaction when handled and stored according

to provisions.

10.2 Chemical stabilityThe product is stable under storage at normal ambient

temperatures.

10.3 Possibility of hazardous reactions Reacts with: strong oxidising agents, strong alcaline or

acidic materials.

10.4 Conditions to avoidOxidising agents, radicals forming substances or heavy

metal ions. Ultra-violet light and daylight initiate

polymerisation of the product. Therefore keep only in tightly closed containers away from any sources of light at 15°C -

28°C / 59°F - 82 °F.

10.5 Incompatible materials No information available.

10.6 Hazardous decomposition products In case of fire, acrid acrylic fumes may occur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity:

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	Method		
	acrylated resin							
	oral	LD50	>2000 mg/kg	Rat				
	dermal	LD50	>2000 mg/kg	Rabbit				
108-32-7	propylene carbonat	propylene carbonate						
	oral	LD50	34600 mg/kg	Rat	GESTIS			
	dermal	LD50	>23800 mg/kg	Rabbit	GESTIS			
42978-66-5 tripropyleneglycol diacrylate								
	oral	LD50	6200 mg/kg	Rat				
	dermal	LD50	>2000 mg/kg	Rabbit				
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide							
	oral	LD50	>5000 mg/kg	Rat				
	dermal	LD50	>2000 mg/kg	Rat				
162881-26-7	phenyl bis(2,4,6-trir	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide						
	oral	LD50	>2000 mg/kg	Rat	OECD 401			
•	dermal	LD50	>2000 mg/kg	Rat	OECD 402			

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Irritation and corrosivity: Causes serious eye irritation. Skin corrosion/irritation:

Based on available data, the classification criteria are not

met.

Sensitising effects: May cause an allergic skin reaction. (aliphatic urethane

acrylate; tripropyleneglycol diacrylate; tetrahydrofurfuryl methacrylate THFMA purified grade; diphenyl(2,4,6-

trimethylbenzoyl)phosphine oxide; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide)

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

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.

Additional information on tests: This mixture is classified as hazardous according to

regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information

12.1 Toxicity

larmful 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	
108-32-7	propylene carbonate							
	Acute fish toxicity	LC50	5300 mg/l	96 h	Leuciscus idus (golden orfe)	IUCLID		
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna (Big water flea)	IUCLID		
42978-66-5	tripropyleneglycol diacrylate							
	Acute fish toxicity	LC50	4,5-10 mg/l	96 h	Leuciscus idus (golden orfe)			
	Acute algae toxicity	ErC50	>28 mg/l	72 h	Desmodesmus subspicatus.			
	Acute crustacea toxicity	EC50	88,7 mg/l	48 h	Daphnia magna (Big water flea)			
2455-24-5	tetrahydrofurfuryl methacrylate THFMA purified grade							
	Acute fish toxicity	LC50 34	,7 mg/l	96 h				
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide							
	Acute algae toxicity	ErC50	>2,01 mg/l	72 h	Scenedesmus subspicatus			
	Acute crustacea toxicity	EC50	3,53 mg/l	48 h	Daphnia magna (Big water flea)			
	Acute bacteria toxicity	(>1000 r	mg/l)	3 h	Activated sludge			
162881-26-7	phenyl bis(2,4,6-tr	imethylbe	enzoyl)-phosp	hine ox				
	Acute fish toxicity		>0,09 mg/l	1	Brachydanio rerio	OECD 203		



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			(zebra-fish)		
Acute algae toxicity	ErC50 >0,26 mg/l	72 h	Desmodesmus subspicatus.	OECD 201	
Acute crustacea toxicity	EC50 >1,175 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
Crustacea toxicity	NOEC >0,008 mg/l	21 d	Daphnia magna (Big water flea)	OECD 211	
Acute bacteria	(>100 mg/l)	3 h	OECD 209		

12.2 Persistence and degradability: The product has not been tested

The product has not been tested						
CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	Not readily biodegradable (according	to OECD criteria)			
162881-26-7	7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide					
	CO2 formation (% of the theoretical	1%	29			
	value).					
	Not readily biodegradable (according					

12.3 Bioaccumulative potential:

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-32-7	propylene carbonate	-0,41
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,1
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	5,8

BCF

CAS No	Chemical name	BCF	Species	Source
75980-60-8	diphenyl(2,4,6-	47-55	Cyprinus carpio	
	trimethylbenzoyl)phosphine oxide		(Common Carp)	
162881-26-7	phenyl	<5	Cyprinus carpio	OECD 305
	bis(2,4,6-trimethylbenzoyl)-		(Common	
	phosphine oxide		Carp)	

12.4 Mobility in soil: The product has not been tested.

12.5 Results of PBT and vPvB assessment: Not identified 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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Advice on disposal: 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.

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)

14.1 UN 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.

Inland waterways transport (ADN)

14.1 UN number: No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name:
 14.3 Transport hazard class(es):
 No dangerous good in sense of this transport regulation.
 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: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: 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 Marine pollutant: No dangerous good in sense of this transport regulation.

14.6 Special precautions for user:No information available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:

SECTION 15: Regulatory information

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to

Not applicable.

the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 3 - highly water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2 Chemical safety assessmentChemical safety assessments for substances in this mixture

were not carried out.

SECTION 16: Other information

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%



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LD50: Lethal dose, 50%

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

[CLP]

Classification Classification procedure

Eye Irrit. 2; H319 Calculation method Skin Sens. 1; H317 Calculation method Aquatic Chronic 3; H412 Calculation method

Relevant H and EUH statements (number and full text)

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Further Information:

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singulary responsible for adhering to existing laws and regulations.