# EU safety data sheet

### Trade name: SprintRay Crown

Current version : 3.0.0, issued: 22.04.2022

Replaced version: 2.0.0, issued: 21.03.2022

Region: GB

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

1.1 **Product identifier** 

Trade name SprintRay Crown SprintRay Crown, 250g (SRE0205047) SprintRay Crown, 250g (SRE0205048) SprintRay Crown, 250g (SRE0205049) SprintRay Crown, 250g (SRE0205050) SprintRay Crown, 250g (SRE0205051) SprintRay Crown, 250g (SRE0205052) SprintRay Crown, 250g (SRE0205053) SprintRay Crown, 500g (SRE0205040) SprintRay Crown, 500g (SRE0205041) SprintRay Crown, 500g (SRE0205042) SprintRay Crown, 500g (SRE0205043) SprintRay Crown, 500g (SRE0205044) SprintRay Crown, 500g (SRE0205045) SprintRay Crown, 500g (SRE0205046) SprintRay Crown, 500g (SRE0205054) SprintRay Crown, 250g (SRE0205055)

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

Relevant identified uses of the substance or mixture Resin for 3D printing of permanent single crowns, inlays, onlays and veneers Uses advised against

No data available.

#### 1.3 Details of the supplier of the safety data sheet

#### Address

BEGO Bremer Goldschlägerei Wilh. Herbst GmbH & Co. KG Wilhelm-Herbst-Str.1 28359 Bremen

Telephone no. +49/ 421/ 2028-0 +49/421/2028-115 Fax no. msds@bego.com e-mail

### Information provided by / telephone

Research & Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 - 130 (Chief Development Officer alloys)

Advice on Safety Data Sheet sdb\_info@umco.de

#### 1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)



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### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

#### Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Chronic 4; H413 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

#### **Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC)  $n^{\circ}$  1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

#### Hazard pictograms



Signal word Warning

#### Hazardous component(s) to be indicated on label:

Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

### Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H413	May cause long lasting harmful effects to aquatic life.
Precautionary sta	atement(s)
P261	Avoid breathing mist/vapours/sprav

P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

### 2.3 Other hazards

PBT assessment No data available.

vPvB assessment No data available.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable. The product is not a substance.

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### 3.2 Mixtures

#### Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	Esterification prod	ucts of 4,4'-isopropylidenediphenol, ethoxylated		
	and 2-methylprop-2	2-enoic acid		
	41637-38-1	Eye Irrit. 2; H319	>= 50.00 - < 75.00	wt%
	-	Skin Irrit. 2; H315		
	-	Skin Sens. 1; H317		
	-	STOT SE 3; H335		
		Aquatic Chronic 4; H413		
2	diphenyl(2,4,6-trim	ethylbenzoyl)phosphine oxide	pls. refer to footnote (1)	
	75980-60-8	Aquatic Chronic 2; H411	< 2.50	wt%
	278-355-8	Skin Sens. 1B; H317		
	015-203-00-X	Repr. 2; H361fd		
	-			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

### No Route, target organ, concrete effect

2 H361fd

-; testes, bones; -

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

#### **General information**

In case of allergic symptoms, especially respiratory tract related, seek medical help immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

#### After skin contact

In case of contact with skin wash off immediately with copious amounts of water.

### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

# **4.2 Most important symptoms and effects, both acute and delayed** No data available.

**4.3 Indication of any immediate medical attention and special treatment needed** No data available.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Extinguishing powder; Water spray jet; Alcohol-resistant foam **Unsuitable extinguishing media** High power water jet

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); Phosphorus oxides



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### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away from ignition sources. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**6.3** Methods and material for containment and cleaning up Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

### 6.4 Reference to other sections

No data available.

### SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

### Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

### General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes and skin. Provide eye wash fountain in work area.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

### Incompatible products

Do not store together with: oxidizing agents

### 7.3 Specific end use(s)

No data available.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

No parameters available for monitoring.

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

### Personal protective equipment

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#### **Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other

Chemical-resistant work clothes.

## Environmental exposure controls

No data available.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

State of aggregation
liquid
Form/Colour
liquid
Various, depending on coloration
Odour
No data available
pH value
No data available
Boiling point / boiling range
Value 150 °C
Melting point/freezing point
No data available
Decomposition temperature
No data available
Flash point
Value 110 °C
Ignition temperature
No data available
Flammability
No data available
Lower explosion limit
No data available
Upper explosion limit
No data available
Vapour pressure
No data available
Relative vapour density
No data available



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D	
	elative density
	n <b>sity</b> lue 1.4 - 1.5 a/cm <sup>3</sup>
	lue 1.4 - 1.5 g/cm³ ference temperature 20 °C
	lubility
NO	o data available
	rtition coefficient n-octanol/water (log value)
	Substance name CAS no. EC no.
1	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide         75980-60-8         278-355-8           Pow         3.1
	eference temperature 23 °C
	ethod OECD 117
So	urce ECHA
Ki	nematic viscosity
	o data available
Da	rticle characteristics
	o data available
9.2	Other information
	her information
INC	data available.
SEC <sup>-</sup>	TION 10: Stability and reactivity
10.1	Reactivity No data available.
10.2	<b>Chemical stability</b> Stable under recommended storage and handling conditions (See section 7).
10.3	Possibility of hazardous reactions None, when used as directed.
10.4	<b>Conditions to avoid</b> Heat, naked flames and other ignition sources.
10.5	Incompatible materials strong oxidizing agents
10.6	Hazardous decomposition products

No hazardous decomposition products known. In case of fire: see section 5.

## **SECTION 11: Toxicological information**

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

Acu	te oral toxicity				
No	Substance name		CAS no.		EC no.
1	diphenyl(2,4,6-trimethylbenzoyl)phosphi	ne oxide	75980-60-8		278-355-8
LD5	0	>		5000	mg/kg bodyweight
Spe	cies	rat			
Meth	nod	OECD 401			
Sou	се	ECHA			
Acu	te dermal toxicity				
No	Substance name		CAS no.		EC no.
1	diphenyl(2,4,6-trimethylbenzoyl)phosphi	ne oxide	75980-60-8		278-355-8
LD5	0	>		2000	mg/kg bodyweight
Spe	cies	rabbit			



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Meth	nod	OECD 402		
Sou		ECHA		
Acu	te inhalational toxicity			
	data available			
Skir	n corrosion/irritation			
	Substance name		CAS no.	EC no.
1	diphenyl(2,4,6-trimethylbenzoyl)phos		75980-60-8	278-355-8
Spe Sou		rabbit ECHA		
	luation	non-irritant		
Sori	ous eye damage/irritation			
	Substance name		CAS no.	EC no.
1	diphenyl(2,4,6-trimethylbenzoyl)phos	phine oxide	75980-60-8	278-355-8
Spe		rabbit		
Sou	rce luation	ECHA non-irritant		
		non-initani		
	piratory or skin sensitisation		CAC ===	EC no.
<u>NO</u> 1	Substance name diphenyl(2,4,6-trimethylbenzoyl)phos	phine oxide	CAS no. 75980-60-8	278-355-8
	te of exposure	Skin	10000-00-0	210-000-0
Spe		mouse		
Meth		OECD 429		
Sou Eval	rce luation	ECHA sensitizing		
		Cononizing		
	m cell mutagenicity Substance name		CAS no.	EC no.
1	diphenyl(2,4,6-trimethylbenzoyl)phos	phine oxide	75980-60-8	278-355-8
Sou	rce	ECHA		
Eval	luation/classification	Based on a	vailable data, the class	ification criteria are not met.
Rep	roduction toxicity			
	Substance name		CAS no.	EC no.
1 Sou	diphenyl(2,4,6-trimethylbenzoyl)phos	ECHA	75980-60-8	278-355-8
	luation/classification		vailable data, the class	ification criteria are met.
C	oinegenieity	•		
	cinogenicity data available			
	<b>)T - single exposure</b> data available			
	0T - repeated exposure			
	iration hazard data available			
	nformation on other hazards			
	Endocrine disrupting properties No data available.			
	Other information			

**SECTION 12: Ecological information** 

12.1 Toxicity

Toxicity to fish (acute)



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No data available					
Toxicity to fish (chronic)					
No data available					
Toxicity to Daphnia (acute)					
No Substance name		CAS no.		EC no.	
1 diphenyl(2,4,6-trimethylbenzoyl)phosp	hine oxide	75980-60-8		278-355-8	
EC50			3.53	mg/l	
Duration of exposure			48	h	
Species	Daphnia ma				
Method	OECD 202				
Source	ECHA				
Toxicity to Daphnia (chronic)					
No data available					
Toxicity to algae (acute)					
Toxicity to algae (acute)		CAS no.		EC no.	
No Substance name	ohine oxide	CAS no. 75980-60-8		EC no. 278-355-8	
No Substance name	ohine oxide		2.01	278-355-8	
NoSubstance name1diphenyl(2,4,6-trimethylbenzoyl)phosp			2.01 72		
No         Substance name           1         diphenyl(2,4,6-trimethylbenzoyl)phosp           EC50	>		72	<b>278-355-8</b> mg/l	
NoSubstance name1diphenyl(2,4,6-trimethylbenzoyl)phospEC50Duration of exposure	>	75980-60-8	72	<b>278-355-8</b> mg/l	
NoSubstance name1diphenyl(2,4,6-trimethylbenzoyl)phospEC50Duration of exposureSpecies	> Pseudokirc	75980-60-8	72	<b>278-355-8</b> mg/l	
No         Substance name           1         diphenyl(2,4,6-trimethylbenzoyl)phosp           EC50         Duration of exposure           Species         Method           Source	> Pseudokirc OECD 201	75980-60-8	72	<b>278-355-8</b> mg/l	
NoSubstance name1diphenyl(2,4,6-trimethylbenzoyl)phospEC50Duration of exposureSpeciesMethod	> Pseudokirc OECD 201	75980-60-8	72	<b>278-355-8</b> mg/l	
No         Substance name           1         diphenyl(2,4,6-trimethylbenzoyl)phosp           EC50         Duration of exposure           Species         Method           Source         Toxicity to algae (chronic)           No data available         No	> Pseudokirc OECD 201	75980-60-8	72	<b>278-355-8</b> mg/l	
No       Substance name         1       diphenyl(2,4,6-trimethylbenzoyl)phosp         EC50       Duration of exposure         Species       Method         Source       Toxicity to algae (chronic)         No data available       Bacteria toxicity	> Pseudokirc OECD 201	75980-60-8	72	<b>278-355-8</b> mg/l	
No       Substance name         1       diphenyl(2,4,6-trimethylbenzoyl)phosp         EC50       Duration of exposure         Species       Method         Source       Variable	> Pseudokirc OECD 201	75980-60-8	72	<b>278-355-8</b> mg/l	

# 12.2 Persistence and degradability

Bioc	legradability					
No	Substance name	(	CAS no.		EC no.	
1	diphenyl(2,4,6-trimethylbenzoyl)phosphi	ne oxide 🛛 7	75980-60-8		278-355-8	
Туре		aerobic biodeg	radation			
Valu	e	0	-	10	%	
Dura	ition			28	d	
Meth	nod	OECD 301 F				
Sour	ce	ECHA				
Eval	uation	not readily biod	legradable			

### 12.3 Bioaccumulative potential

Part	ition coefficient n-octanol/water (log value	e)				
No	Substance name		CAS no.		EC no.	
1	diphenyl(2,4,6-trimethylbenzoyl)phosphi	ne oxide	75980-60-8		278-355-8	
log F	Pow			3.1		
Refe	erence temperature			23	°C	
Meth	nod	OECD 117				
Sour	rce	ECHA				

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	No data available.
vPvB assessment	No data available.

#### **12.6 Endocrine disrupting properties** No data available.

### 12.7 Other adverse effects

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No data available.

### 12.8 Other information

### Other information

Do not discharge product unmonitored into the environment.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## **SECTION 14: Transport information**

#### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

- **14.3 Transport ICAO-TI / IATA** The product is not subject to ICAO-TI / IATA regulations.
- **14.4** Other information No data available.
- **14.5 Environmental hazards** Information on environmental hazards, if relevant, please see 14.1 - 14.3.
- 14.6 Special precautions for user No data available.
- 14.7 Maritime transport in bulk according to IMO instruments Not relevant

### **SECTION 15: Regulatory information**

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU regulations</u>

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation) According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

	julation (EC) No 1907/2006 (REACH) Annex XVII: RES			
THE	E MARKET AND USE OF CERTAIN DANGEROUS SUB	STANCES, MIXTU	RES AND ARTICLES	5
The	product is considered being subject to REACH regulation	n (EC) 1907/2006 a	nnex XVII.	No 3
The	product contains following substance(s) that are conside	ered heing subject to	REACH regulation (	EC) 1907/2006
1110	product contains following substance(s) that are conside	fied being subject te	, Itc/ tor i regulation (	-0,1001/2000
	ex XVII.	sied being subject te		20) 1001/2000
		CAS no.	EC no.	No
ann	ex XVII.			•

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3	Iron hydroxide oxide yellow	51274-00-1	257-098-5	75	
4	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]	13463-67-7	236-675-5	75	
5	triiron-tetraoxide	1317-61-9	215-277-5	75	
	ctive 2012/18/EU on the control of major-accident has product is not subject to Part 1 or 2 of Annex I.	zards involving da	angerous substance	S	

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#### Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

#### **Chemical safety assessment** 15.2

A chemical safety assessment has not been carried out for this mixture.

### **SECTION 16: Other information**

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H361fd	Suspected of damaging fertility. Suspected of damaging
	the unborn child.
H411	Toxic to aquatic life with long lasting effects.

#### Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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