

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.10.2022 / 0011

Revision date / version: 19.10.2022 / 0010 Replacing version dated / version: 12.05.2022 / 0010 Valid from: 19.10.2022 PDF print date: 19.10.2022 COSMO® SP-711.110

(COSMOFEN RM Pulver)

### Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

### 1.1 Product identifier

COSMO® SP-711.110

### (COSMOFEN RM Pulver)

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

Relevant identified uses of the substance or mixture:

Uses advised against:

# 1.3 Details of the supplier of the safety data sheet

Weiss Chemie + Technik GmbH & Co. KG Hansastrasse 2 35708 Haiger Tel: +49 (0) 2773 / 815-0 msds@weiss-chemie.de www.weiss-chemie.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

### 1.4 Emergency telephone number

Emergency information services / official advisory body:

### Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WIC) +1 872 5888271 (WIC)

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class Hazard category Hazard statement

H317-May cause an allergic skin reaction. Skin Sens. H411-Toxic to aquatic life with long lasting Aquatic Chronic effects.

### 2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)





### Warning

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

P261-Avoid breathing dust. P273-Avoid release to the environment. P280-Wear protective

gloves. P302+P352-IF ON SKIN: Wash with plenty of water and soap. P333+P313-If skin irritation or rash

EUH212-Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Methyl methacrylate Dibenzoyl peroxide

### 2.3 Other hazards

Z.3 OTHER TAZATOS

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

### 3.1 Substances

# n.a.

3.2 Wixtures	
Titanium dioxide (in powder form containing 1 % or	
more of particles with aerodynamic diameter <= 10 μm)	
Registration number (REACH)	01-2119489379-17-XXXX
	01-2119489379-17-XXXX

Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	10-20
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP), M-factors	· ·

Dibenzoyl peroxide	
Registration number (REACH)	01-2119511472-50-XXXX
Index	617-008-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	202-327-6
CAS	94-36-0
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008	Org. Perox. Type B, H241
(CLP), M-factors	Eye Irrit. 2, H319
•	Skin Sens. 1, H317
	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 1 H410 (M=10)

Methyl methacrylate	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	01-2119452498-28-XXXX
Index	607-035-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	201-297-1
CAS	80-62-6
content %	0,1-2,5
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 2, H225
(CLP), M-factors	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	STOT SE 3, H335

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

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

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

### Inhalation

Remove person from danger area

Supply person with fresh air and consult doctor according to symptoms. Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Unsuitable cleaning product: Solvent Thinners

### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### Ingestion

Rinse the mouth thoroughly with water

### Give copious water to drink - consult doctor immediately. 4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguished

Unsuitable extinguishing media

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon

### 5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

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

### 6.1 Personal precautions, protective equipment and emergency procedures 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.
Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid build up of dust.

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin

### 6.1.2 For emergency responders See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

### 6.3 Methods and material for containment and cleaning up

6.4 Reference to other sections For personal protective equipment see Section 8 and for disposal instructions see Section 13

# **SECTION 7: Handling and storage**



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In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation. Avoid build up of dust. Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

Keep away from sources of ignition - Do not smoke.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

# **7.1.2 Notes on general hygiene measures at the workplace** General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

ove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals Store product closed and only in original packing. Not to be stored in gangways or stair wells. Store at room temperature. Store in a dry place.

7.3 Specific end use(s)

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

### 8.1 Control parameters

	Fitanium dioxide (in powde particles with aerodynamic	er form containing 1 % or more	e of
WEL-TWA: 10 mg/m3 (total inh	alable WEL-STEL:	diameter <= 10 µm)	
	alable WEL-STEL:		
dust), 4 mg/m3 (respirable dust)			
Monitoring procedures: BMGV:		Other informatio	
BIVIGV:		Other informatio	n:
	Dibenzoyl peroxide		
WEL-TWA: 5 mg/m3	WEL-STEL:		
Monitoring procedures:			•
BMGV:		Other informatio	n:
		•	
	Methyl methacrylate		
TWEL-TWA: 50 ppm (208 mg/m		100 ppm (416 mg/m3)	
(WEL), 50 ppm (EU)	(WEL), 100 p		
Monitoring procedures:		-184 S (548 618)	
		lethyl and ethyl metacrylate) -	
		/000/2002-16 card 109-2 (200	14)
	<ul> <li>OSHA 94 (Meth</li> </ul>	yl Methacrylate) - 1992	
BMGV:		Other informatio	n:
	Silicon dioxide		
WEL-TWA: 6 mg/m3 (total inh.	dust), WEL-STEL:		
2,4 mg/m3 (resp. dust)			
Monitoring procedures:			
BMGV:		Other informatio	n:
	general dust limit		
WEL-TWA: 10 mg/m3 (inhal. de	ust), 4 WEL-STEL:		
mg/m3 (respir. dust)			
Monitoring procedures:			
BMGV:		Other informatio	n:

Titanium dioxide (in µm)	powder form containing	1 % or more of part	icles with a	aerodyna	mic diame	ter <= 1
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	0,18 4	mg/l	
	Environment - marine		PNEC	0,01 84	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,19 3	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	100 0	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal feed)		PNEC	166 7	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	

Dibenzoyl peroxide						
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	0,00 002	mg/l	
	Environment - marine		PNEC	0,00 000 2	mg/l	

	Environment - sediment, freshwater		PNEC	0,01 3	mg/kg dw	
	Environment -		PNEC	0,00	mg/kg	
	sediment, marine Environment -		PNEC	0.35	dw mg/l	
	sewage treatment		11120	0,00	mg/i	
	Environment - water, sporadic (intermittent) release		PNEC	0,00 060 2	mg/l	
	Environment - soil		PNEC	0,00 25	mg/kg dw	
Consumer	Human - oral	Long term, systemic effects	DNEL	2	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	13,3	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	39	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,03 4	mg/cm 2	

Methyl methacrylate	F	F#	D 1	M-I	1114	NI-1
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment -		PNEC	0,94	mg/l	
	freshwater				-	
	Environment - soil		PNEC	1,47	mg/kg	
	Environment -		PNEC	10	mg/l	
	sewage treatment					
	plant					
	Environment -		PNEC	0,09	mg/l	
	marine			4		
	Environment -		PNEC	5,74	mg/kg	
	sediment Environment -		PNEC	40.0		
			PNEC	10,2	mg/kg	
	sediment, freshwater Environment -		PNEC	0.10		
	sediment, marine		PINEC	2	mg/kg	
Consumer	Human - inhalation	Short term.	DNEL	208	mg/m3	
					ŭ	
Consumer	Human - oral	Long term,	DNEL	8,2	mg/kg	
		systemic effects				
Consumer	Human - dermal	Short term,	DNEL	1,5	mg/cm	
		local effects			2	
Consumer	Human - inhalation	Long term,	DNEL	104	mg/m3	
_		local effects	BNE		,	
Consumer	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm 2	
Consumer	Human - inhalation	Long term,	DNEL	74.3	mg/m3	
Consumer	Human - imalation	systemic effects	DINEL	74,3	mg/ms	
Consumer	Human - dermal	Long term.	DNEL	8.2	mg/kg	
Consumer	Tidilian - deliliai	systemic effects	DINEL	0,2	bw/day	
Consumer	Human - oral	Long term,	DNEL	1,5	mg/cm	
		local effects		.,-	2	
Industrial /	Human - dermal	Long term.	DNEL	1.5	mg/cm	
commercial		local effects		,-	2	
Industrial /	Human - inhalation	Long term,	DNEL	208	mg/m3	
commercial		local effects			ŭ	
Industrial /	Human - inhalation	Long term,	DNEL	208	mg/m3	
commercial		systemic effects				
Industrial /	Human - dermal	Long term,	DNEL	13,6	mg/kg	
commercial		systemic effects		7		
Industrial /	Human - dermal	Short term,	DNEL	1,5	mg/cm	
commercial		local effects			2	
Workers /	Human - inhalation	Long term,	DNEL	208	mg/m3	
employees		local effects	51151		,	
Workers /	Human - dermal	Long term, local effects	DNEL	1,5	mg/cm	
employees Workers /	Human - inhalation	Short term.	DNFL	416	2	
vvorkers / employees	numan - innaiation	Short term, local effects	DNEL	416	mg/m3	
empioyees Workers /	Human - dermal	Long term,	DNEL	13.6	mg/kg	
employees	i iuillali - uelillal	systemic effects	DINEL	7	riig/kg	
Workers /	Human - inhalation	Long term,	DNEL	348.	mg/m3	
employees	i iuilian - iiiiaiauUli	systemic effects	DINLL	4	/ilg/illo	
Workers /	Human - dermal	Short term,	DNEL	1.5	mg/cm	
employees		local effects	2	.,.	2	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) E140. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cgreatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with

the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

### 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection

should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.
EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

# 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).



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Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective gloves in butyl rubber (EN ISO 374).
Minimum layer thickness in mm:
>= 0,7
Permeation time (penetration time) in minutes:

>= 60 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary.

If OES or MEL is exceeded.
If applicable, filter P2 (EN 143), code colour white
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and

degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and

varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested

before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

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

### 9.1 Information on basic physical and chemical properties

Physical state: Colour: Odour: Melting point/freezing point: Solid White Characteristic There is no information available on this parameter.

There is no information available on this parameter.

weuting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability:
Lower explosion limit:
Upper explosion limit:
Flash point:
Auto-ignition temperature:
Decomposition temperature: Flammable Flammable
Does not apply to solids.
Does not apply to solids.
Does not apply to solids.
>440 °C
There is no information available on this parameter.

Decomposition temperature:

Mixture is non-soluble (in water).

Kinematic viscosity:
Solubility:
Partition coefficient n-octanol/water (log value):

Does not apply to solids.
Insoluble
Does not apply to mixtures.
There is no information available on this parameter.

Vapour pressure: Density and/or relative density: Relative vapour density: ~1,3 g/cm3 Does not apply to solids. 9.2 Other information

Product is not explosive. There is no information available on this parameter. n.a. Explosives: Oxidizing solids: Evaporation rate

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products

See also section 5.2 No decomposition when used as directed

# **SECTION 11: Toxicological information**

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

Possibly more information on health effects, see Section 2.1 (classification)
COSMO® SP-711.110

(COSMOFEN RM Pulve	r)					
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by						n.d.a.
inhalation:						
Skin						n.d.a.
corrosion/irritation:						

Serious eye			n.d.a.
damage/irritation:			
Respiratory or skin			n.d.a.
sensitisation:			
Germ cell			n.d.a.
mutagenicity:			
Carcinogenicity:			n.d.a.
Reproductive toxicity:			n.d.a.
Specific target organ			n.d.a.
toxicity - single			
exposure (STOT-SE):			
Specific target organ			n.d.a.
toxicity - repeated			
exposure (STOT-RE):			
Aspiration hazard:			n.d.a.
Symptoms:			n.d.a.

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/k g	Rabbit	1 loccuare)	
Acute toxicity, by inhalation:	LC50	>6,8	mg/l/ 4h	Rat		
Skin corrosion/irritation:			411	Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritar
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritar Mechanic irritation possible.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizis g
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mammali an	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Salmonel la typhimuri um	(Ames-Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indicatior of such a effect.
Specific target organ toxicity - single exposure (STOT-SE): Symptoms:						Not irritar (respirato tract). mucous
						membrar irritation, coughing respirator distress, drying of the skin.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	3500	mg/k g/d	Rat		90d
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE C	10	mg/m 3	Rat		90d

Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
roxiony / circut	int	Value	0	m	rest method	110103
		E000				
Acute toxicity, by oral	LD50	>5000	mg/k	Rat		
route:			g			
Acute toxicity, by	LC50	>24,3	mg/l/	Rat	OECD 403	Aerosol
inhalation:			4h		(Acute Inhalation	
					Toxicity)	
Skin				Rabbit	OECD 404	Not irritant
corrosion/irritation:					(Acute Dermal	
					Irritation/Corrosio	
					n)	
Serious eye			-	Rabbit	OECD 405	Eye Irrit. 2
				Nabbit		Eye IIII. 2
damage/irritation:					(Acute Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:					Sensitisation -	contact)
					Local Lymph	
					Node Assay)	
Germ cell						Negative
mutagenicity:						
Carcinogenicity:	NOAE	1000	mg/k			Negative29
	L		l a i			d



Notes

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COSMO® SP-711.110 (COSMOFEN RM Pulver) Symptoms: Methyl methacrylate
Toxicity / effect Endpo Value Unit Organis

int

Г	Acute toxicity, by oral	LD50	>6000	mg/k	Rat	OECD 401	
	route:			g		(Acute Oral	
				"		Toxicity)	
H	Acute toxicity, by	LD50	>5000	mg/k	Rabbit	OECD 402	
	dermal route:	LDOO	20000	g	Rabbit	(Acute Dermal	
	dermai route.			9		Toxicity)	
$\vdash$		1.050	00.0			TOXICILY)	.,
	Acute toxicity, by	LC50	29,8	mg/l/	Rat		Vapours
L	inhalation:			4h			
	Skin				Rabbit		Skin Irrit. 2
	corrosion/irritation:						
Г	Serious eye				Rabbit	OECD 405	Mild irritant
	damage/irritation:					(Acute Eye	
						Irritation/Corrosio	
						n)	
$\vdash$	Decelerate extended				I I company	n)	Skin Sens.
	Respiratory or skin				Human		
L	sensitisation:				being		1
	Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
	sensitisation:					Sensitisation -	contact)
						Local Lymph	· ·
						Node Assay)	
$\vdash$	Germ cell					OECD 471	Negative
						(Bacterial	ivegative
	mutagenicity:						
						Reverse	
L						Mutation Test)	
L	Carcinogenicity:						Negative
	Reproductive toxicity:						Negative
Г	Specific target organ	NOAE	2000	ppm	Rat		
	toxicity - repeated	L					
	exposure (STOT-RE):	_					
H	Aspiration hazard:						No
	Aspiration nazara.						indications
							of such an
L							effect.
	Specific target organ	NOAE	25	ppm	Rat	OECD 453	
	toxicity - repeated	L				(Combined	
	exposure (STOT-RE),					Chronic	
	inhalat.:					Toxicity/Carcinog	
	ii ii ididii.					enicity Studies)	
H	Cummatama					erricity Studies)	breathing
	Symptoms:			I			
				I			difficulties,
							respiratory
							distress,
							drowsiness
							, drop in
				I			blood
				1			
				I			pressure,
							coughing,
							headaches,
				I			fatigue,
				I			mucous
				I			membrane
				I			irritation,
				1			watering
				I			
- 1		1	1	I	1		eves.

Silicon dioxide							
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)		
Acute toxicity, by dermal route:	LD50	> 2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant	
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative	
Aspiration hazard:						No	

### 11.2. Information on other hazards

COSMO® SP-711.110								
(COSMOFEN RM Pulve	r)							
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes		
	int			m _				
Endocrine disrupting						Does not		
properties:						apply to		
						mixtures.		
Other information:						No other		
						relevant		
						information		
						available		
						on adverse		
						effects on		
						health.		

# **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification). COSMO® SP-711.110

cornea opacity, mucous membrane

irritation

Notes

Test method

COSINION SP-711.	110					
(COSMOFEN RM	Pulver)					
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Tes

est ethod 12.1. Toxicity to n.d.a. fish: 12.1. Toxicity to n.d.a. daphnia: 12.1. Toxicity to n.d.a. n.d.a. Persistence and degradability: 12.3. n.d.a. Bioaccumulative potential: 12.4. Mobility in n.d.a. soil: 12.5. Results of PBT and vPvB n.d.a. assessment 12.6. Endocrine Does not apply to mixtures. No information disrupting properties:
12.7. Other adverse effects: available on other adverse effects on

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10

Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirch neriella subcapitata	U.S. EPA- 600/9-78- 018	
12.2. Persistence and degradability:							Not relevant for inorganic substance
12.3. Bioaccumulative potential:	BCF	42d	9,6				Not to be expected
12.3. Bioaccumulative potential:	BCF	14d	19- 352				Oncorhyno hus mykis
12.4. Mobility in soil:							Negative
12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance
Toxicity to bacteria:			>50 00	mg/l	Escherichia coli		
Toxicity to bacteria:	LC0	24h	>10 000	mg/l	Pseudomon as fluorescens		
Toxicity to annelids:	NOEC/N OEL		>10 00	mg/k g	Eisenia foetida		
Water solubility:				Ŭ			Insoluble2 °C

Dibenzoyl peroxic							
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to	LC50	96h	0,06	mg/l	Oncorhynch	OECD 203	
fish:			02		us mykiss	(Fish, Acute	
						Toxicity	
						Test)	
12.1. Toxicity to	NOEC/N	96h	0,03	mg/l	Oncorhynch	OECD 203	
fish:	OEL		16		us mykiss	(Fish, Acute	
						Toxicity	
						Test)	
12.1. Toxicity to	EC50	48h	0,11	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia	
						sp. Acute	
						Immobilisati	
12.1. Toxicity to	NOEC/N	21d	>0.0	/I	Daphnia	on Test) OECD 211	
	OFL	210	01	mg/l			
daphnia:	OEL		01		magna	(Daphnia	
						magna Reproductio	
						n Test)	
12.1. Toxicity to	EC50	72h	0.07	mg/l	Pseudokirch	OECD 201	
algae:	2030	7211	11	IIIg/I	neriella	(Alga,	
aigao.			l ''		subcapitata	Growth	
					ouboupitata	Inhibition	
						Test)	
12.1. Toxicity to	NOEC/N	72h	0.02	mg/l	Pseudokirch	OECD 201	
algae:	OEL		.,,,,	J.	neriella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	



(SB)
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Revision date / Verision: 18.10.2022 / 0011 Replacing version dated / Version: 12.05.2022 / 0010 Valid from: 19.10.2022 PDF print date: 19.10.2022 COSMO® SP-711.110

(COSMOFEN RM Pulver)

12.2. Persistence and degradability:		28d	68- 71	%		OECD 301 D (Ready Biodegradab ility - Closed Bottle Test)	Readily biodegrada ble
12.3. Bioaccumulative potential:	BCF		66,6			OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	
12.3. Bioaccumulative potential:	Log Pow		3,2			OECD 117 (Partition Coefficient (n- octanol/wate r) - HPLC method)	22 °C
12.4. Mobility in soil:	Log Koc		3,8			OECD 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using HPLC)	
Toxicity to bacteria:	EC50	30m in	35	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

	Methyl methacrylate									
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes			
	t	е	е			method				
12.1. Toxicity to	NOEC/N	72h	49	mg/l	Pseudokirch	OECD 201				
algae:	OEL				neriella	(Alga,				
					subcapitata	Growth				
						Inhibition				
						Test)				
12.1. Toxicity to	NOEC/N	21d	37	mg/l	Daphnia	OECD 211				
daphnia:	OEL				magna	(Daphnia				
						magna				
						Reproductio				
40.4 7 1 11 1	1050	0.01	400		5	n Test)				
12.1. Toxicity to	LC50	96h	130	mg/l	Pimephales	OECD 203				
fish:					promelas	(Fish, Acute Toxicity				
						Test)				
12.1. Toxicity to	EC50	48h	69	mg/l	Daphnia	OECD 202				
daphnia:	EC30	4011	09	ilig/i	magna	(Daphnia				
чарппа.					magna	sp. Acute				
						Immobilisati				
						on Test)				
12.1. Toxicity to	EC50	96h	37	mg/l	Selenastrum	OECD 201				
algae:				"	capricornut	(Alga,				
· ·					um	Growth				
						Inhibition				
						Test)				
12.2.		28d	>95	%		OECD 302	Readily			
Persistence and						B (Inherent	biodegrada			
degradability:						Biodegradab	ble			
						ility - Zahn-				
						Wellens/EM				
12.3.			4.00			PA Test)				
12.3. Bioaccumulative	Log Pow		1,32			OECD 107 (Partition	A notable			
potential:			-1,3 8			Coefficient	biological accumulati			
potentiai:			8			(n-	on			
						octanol/wate	potential is			
						r) - Shake	not to be			
						Flask	expected			
						Method)	(LogPow 1-			
							3).			
12.5. Results of							No PBT			
PBT and vPvB							substance,			
assessment							No vPvB			
							substance			

Silicon dioxide	Silicon dioxide								
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes		
12.1. Toxicity to fish:	EC0	96h	>10 000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)			
12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)			
12.1. Toxicity to algae:	ErC50	72h	>=1 000 0	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)			

12.2. Persistence and degradability:			Inorganic products cannot be eliminated from water through
			biological purification
			methods.
12.5. Results of			No PBT
PBT and vPvB			substance,
assessment			No vPvB substance

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### For the substance / mixture / residual amounts

EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

Owing to the user's specific continions for use and disposar, office waste codes may be allocated under certain circumstances. (2014/955/EU) 
80 40 90 waste adhesives and sealants containing organic solvents or other hazardous substances Recommendation: Sewage disposal shall be discouraged. 
Pay attention to local and national official regulations.

E.g. suitable incineration plant. E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

# **SECTION 14: Transport information**

### **General statements**

14.1. UN number or ID number: 3077

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)

UN 3077 ENVIRONMENTALLY
14.3. Transport hazard class(es):
14.4. Packing group:
Classification code:
LQ:
14.5. Environmental hazards: 9 III 5 kg

environmentally hazardous

Tunnel restriction code

# Transport by sea (IMDG-code)

14.2. UN proper shipping name:
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE)
14.3. Transport hazard class(es):
14.4. Packing group:
EmS:
F-A, S-F

Marine Pollutant: 14.5. Environmental hazards: environmentally hazardous

Transport by air (IATA)

14.2. UN proper shipping name:
Environmentally hazardous substance, solid, n.o.s. (DIBENZOYL PEROXIDE)
14.3. Transport hazard class(es):
9
14.4. Packing group:
III

14.5. Environmental hazards: environmentally hazardous

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained

All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments Freighted as packaged goods rather than in bulk, therefore not applicable Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.

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

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

Observe restrictions:
Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others

may also ne	may also need to be considered according to storage, handling etc.).									
Hazard cate	egories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements						
E2			200	500						

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities

Directive 2010/75/EU (VOC):

Observe incident regulations.

**15.2 Chemical safety assessment**A chemical safety assessment is not provided for mixtures.

# **SECTION 16: Other information**

Revised sections:

Revised sections:

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):



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Classification in accordance with	Evaluation method used
regulation (EC) No. 1272/2008 (CLP)	
Skin Sens. 1, H317	Classification according to calculation
	procedure.
Aquatic Chronic 2, H411	Classification according to calculation
	procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H225 Highly flammable liquid and vapour.

H241 Heating may cause a fire or explosion

H351 Suspected of causing cancer by inhalation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Skin Sens. — Skin sensitization

Skill Sensi. — Skill Sensilization Aquatic Chronic — Hazardous to the aquatic environment - chronic Carc. — Carcinogenicity Org. Perox. — Organic peroxide

Org. Perox. — Organic peroxide
Eye Irritt. — Eye irritation
Aquatic Acute — Hazardous to the aquatic environment - acute
Flam. Liq. — Flammable liquid
Skin Irrit. — Skin irritation
STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

## Key literature references and sources

for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water

Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (=

AUX
Advantage and the International Carriage of Dangerous Goods by Road)
AOX
Adsorbable organic halogen compounds

approx. approximately
Art., Art. no.Article number
ASTM
ASTM
ASTM International (American Society for Testing and Materials)
ACURE Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and

BAuA

Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF Bioconcentration factor

BCF BSEF

The International Bromine Council bw

body weight Chemical Abstracts Service CAS

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

Derived Minimum Effect Level DMEL DNEL Derived No Effect Level DOC

e.g. for example (ass. EbCx, EyCx, EbLx (x = 10, 50)

Derived No Effect Level
Dissolved organic carbon
dry weight
for example (abbreviation of Latin 'exempli gratia'), for instance

Fil x (x = 10, 50)

Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

(algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

ΕN

FPA

European List or notified States European Norms
United States Environmental Protection Agency (United States of America)

ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate ErCx, EµCx, ErLx (x = 10, 50)

(algae, plants) et cetera etc. EU

European Union Ethylene-vinyl alcohol copolymer Fax number

EVAL Fax.

gen. GHS GWP Globally Harmonized System of Classification and Labelling of Chemicals

Global warming potential Adsorption coefficient of organic carbon in the soil

Koc Kow Kow catanol-water partition coefficient
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

International Maritime Code for Dangerous Goods including, inclusive International Uniform Chemical Information Database International Union for Pure Applied Chemistry Lethal Concentration to 50 % of a test population Lethal Dose to 50% of a test population (Median Lethal Dose) incl. IUCLID IUPAC LC50 LD50

Logarithm of adsorption coefficient of organic carbon in the soil og Pow Logarithm of octanol-water partition coefficient Log Kow, Log Pow Limited Quantities

MARPOL

International Convention for the Prevention of Marine Pollution from Ships not applicable not checked

n.a. n.av. n.c. no data available National Institute for Occupational Safety and Health (USA) n.d.a NIOSH

NIDSH National institute for Occupational Safety and reality (ISSA)
NLP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development

organic org. OSHA Occupational Safety and Health Administration (USA)

persistent, bioaccumulative and toxic
Polyethylene
Predicted No Effect Concentration PBT

PE PNEC

ppm PVC parts per million Polyvinylchloride

PVC Polyvnyichlonde
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No
1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9x-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS
No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely
technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferrovaier de marchandises Dangereuses (=

Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon

SVHC Substance or Telephone Total organic carbon Un RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds very persistent and very bioaccumulative wet weight The statements made here should describe the product with regard to the necessary safety precautions - they

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge

These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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