

Page 1/13

Revision: 29.02.2024

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024

Version number 5 (replaces version 4)

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

- · 1.1 Product identifier
 - · Trade name: Signum zirconia bond II
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Zirconia-Resin Bonding System
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)800 4372522

· Informing department: E-Mail: msds@kulzer-dental.com

· 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008

H225 Highly flammable liquid and vapour. Flam. Liq. 2

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms







GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

methyl methacrylate

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide tert-butyl perbenzoate

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Contd. on page 2)



Page 2/13

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024 Version number 5 (replaces version 4) Revision: 29.02.2024

Trade name: Signum zirconia bond II

(Contd. of page 1)

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

P273 Avoid release to the environment.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

· 2.3 Other hazards -

- · Results of PBT and vPvB assessment
 - · **PBT:** Not applicable. · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Product based on methacrylates

Description: Product based on methacrylates		
Dangerous components:		
EINECS: 201-297-1 Index number: 607-035-00-6	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥50-≤75%
EINECS: 276-957-5 Index number: 607-134-00-4 Reg.nr.: 01-2120751202-68-xxxx	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12- diazahexadecane-1,16-diyl bismethacrylate Aquatic Chronic 2, H411 Skin Sens. 1B, H317 EUH204	25-50%
EINECS: 278-355-8 Index number: 015-203-00-X	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 2, H361f Aquatic Chronic 2, H411 Skin Sens. 1B, H317	≥2.5-<3%
EINECS: 210-382-2	tert-butyl perbenzoate Org. Perox. C, H242 Aquatic Acute 1, H400 Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥0.1-<0.25%

[·] Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
 - · After inhalation Supply fresh air; consult doctor in case of symptoms.
 - · After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact Rinse opened eye for several minutes under running water.
- After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

Product based on methacrylates

(Contd. on page 3)



Page 3/13

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024

Version number 5 (replaces version 4)

Revision: 29.02.2024

Trade name: Signum zirconia bond II

(Contd. of page 2)

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
 - · Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.
 - For safety reasons unsuitable extinguishing agents Water.
- · 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

- · 5.3 Advice for firefighters
 - · Protective equipment: No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with eyes and skin.

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

· 6.4 Reference to other sections

No dangerous materials are released.

See Section 8 for information on personal protection equipment.

-

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Keep containers tightly sealed.
 - Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
 - Storage
 - · Requirements to be met by storerooms and containers: Store in cool location.
 - Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions:

Store cool (not above 25 °C).

Store in cool, dry conditions in well sealed containers.

7.3 Specific end use(s) No further relevant information available.

GB



Page 4/13

Safety data sheet according to 1907/2006/EC, Article 31

Version number 5 (replaces version 4) Printing date 29.02.2024 Revision: 29.02.2024

Trade name: Signum zirconia bond II

(Contd. of page 3)

8.1 Contro	ol parameters		
	-	es that require	e monitoring at the workplace:
80-62-6 m	ethyl methacrylate		
WEL (Gre	at Britain) Short-teri	m value: 416 m	g/m³, 100 ppm
	-	n value: 208 m	
IOELV (Eu		m value: 100 pp n value: 50 ppn	
DAU		ii vaiue. 30 ppii	
· DNI	ethyl methacrylate		
	, ,	torm avotomia	9.2 mg/Kg (not defined)
Oral	general population, long	-	,
Dermal	worker industrial, long te	-	13.67 mg/Kg/d (not defined)
labalati: .a	general population, long	-	,
Inhalative	· · · · · · · · · · · · · · · · · · ·		416 mg/m3 (not defined)
	worker industrial, long te	•	348.4 mg/m3 (not defined)
	worker industrial, long te		208 mg/m3 (not defined) 208 mg/m3 (not defined)
	general population, acute		,
72060 06		•	74.3 mg/m3 (not defined) xo-3,14-dioxa-5,12-diazahexadecane-1,16-di
7 2009-00-	bismethacrylate	tiry1-4, 13-u10.	x0-3,14-010xa-3,12-01a2a11exadeca11e-1,10-01
Oral	general population, long	term, systemic	0.3 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	1.3 mg/Kg/d (not defined)
	general population, long	term, systemic	0.7 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	rm, systemic	3.3 mg/m3 (not defined)
	general population, long	term, systemic	0.6 mg/m3 (not defined)
75980-60-	8 diphenyl(2,4,6-trimeth	ylbenzoyl)pho	sphine oxide
Oral	general population, long	term, systemic	0.0833 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	0.233 mg/Kg/d (not defined)
	general population, long	term, systemic	0.0833 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	rm, systemic	0.822 mg/m3 (not defined)
	general population, long	term, systemic	0.145 mg/m3 (not defined)
·PNE	Cs		
80-62-6 m	ethyl methacrylate		
		0.94 mg/l (not	defined)
marine water 0.094 mg.		0.094 mg/l (no	· · · · · · · · · · · · · · · · · · ·
		10 mg/l (not de	efined)
sediment,	dry weight, freshwater	10.2 mg/Kg (n	ot defined)
sediment,	dry weight, marine water	0.102 mg/Kg (not defined)
soil, dry weight 1.48 mg/Kg (not defined)		ot defined)	



Page 5/13

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024 Version number 5 (replaces version 4) Revision: 29.02.2024

Trade name: Signum zirconia bond II

(Contd. of page 72869-86-47,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyabismethacrylate				
freshwater	0.01 mg/l (not defined)			
marine water	0.001 mg/l (not defined)			
sewage treatment plant	3.61 mg/l (not defined)			
sediment, dry weight, freshwater	4.56 mg/Kg (not defined)			
sediment, dry weight, marine water	0.46 mg/Kg (not defined)			
soil, dry weight	0.91 mg/Kg (not defined)			
75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				
freshwater	0.0014 mg/l (not defined)			
marine water	0.00014 mg/l (not defined)			
sediment, dry weight, freshwater	0.115 mg/Kg (not defined)			
sediment, dry weight, marine water	0.0115 mg/Kg (not defined)			
soil, dry weight	0.0222 mg/Kg (not defined)			

[·] Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
 - General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· Breathing equipment:

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Solvent resistant gloves

Check protective gloves prior to each use for their proper condition.

recommended

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)



Page 6/13

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024 Version number 5 (replaces version 4) Revision: 29.02.2024

Trade name: Signum zirconia bond II

(Contd. of page 5)

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

· Eye/face protection Safety glasses

· Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

· Physical state Fluid · Colour: Colourless · Smell: Ester-like

Odour threshold: · Melting point/freezing point:

Boiling point or initial boiling point and boiling range

· Flammability

· Lower and upper explosion limit

Lower:

Upper:

· Flash point: · Auto-ignition temperature:

Decomposition temperature:

2.1 Vol % 12.5 Vol %

Not determined

Not applicable.

Not determined.

10 °C (80-62-6 methyl methacrylate)

Mixture is non-soluble (in water).

Not miscible or difficult to mix

Not determined.

Not determined.

Not determined.

47 hPa

100.3 °C (80-62-6 methyl methacrylate)

430.0 °C

Not determined.

Signum zirconia bond II > 60 °C

·SADT

рН

Viscosity:

Kinematic viscosity

· Kinematic viscosity

· dynamic:

Solubility

Water:

· Partition coefficient n-octanol/water (log

value)

· Steam pressure at 20 °C:

Vapour pressure:

Density and/or relative density

Density at 20 °C 1.000 g/cm3 Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

No further relevant information available.

Appearance:

Form: Fluid

(Contd. on page 7)



Page 7/13

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024

Version number 5 (replaces version 4)

(Contd. of page 6)

Revision: 29.02.2024

Trade name: Signum zirconia bond II

· Important information	on protection of health
and anvironment and	on cafoty

and environment, and on safety. · Self-inflammability:

· Explosive properties:

· Change in condition · Evaporation rate

Product is not selfigniting.

Not determined.

Product is not explosive. However, formation of

explosive air/vapour mixtures is possible.

· Information with regard to physical hazard classes

Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void

Flammable liquids Highly flammable liquid and vapour.

Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void · Desensitised explosives Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
 - Conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: None
 - Additional information:

If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
 - · Acute toxicity Based on available data, the classification criteria are not met.

(Contd. on page 8)



Page 8/13

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024 Version number 5 (replaces version 4) Revision: 29.02.2024

Trade name: Signum zirconia bond II

		(Conta. of page 7)	
· LD/	· LD/LC50 values that are relevant for classification:		
80-62-6 m	80-62-6 methyl methacrylate		
Oral	LD50	~7,900 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)	
Inhalative	LC50/4 h	29.8 mg/l (rat)	
72869-86-		7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl	
	bismeth	acrylate	
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
75980-60-	75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
614-45-9 t	614-45-9 tert-butyl perbenzoate		
Oral	LD0	2,000 mg/kg (rat) (OECD 423)	
Dermal	LD0	2,000 mg/kg (rat) (OECD 402)	
Inhalative	LC0/4h	1.01 mg/L (rat) (OECD 439)	
	LC100/4h	4.9 mg/L (rat) (OECD 439)	

Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause respiratory irritation.

- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards
 - · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

•	Aqualic	; loxicity.	

80-62-6 methyl methacrylate

EC50/21d 49 mg/L (daphnia) (OECD 211)

EC50/48h 69 mg/l (daphnia) (EPA OTS 797.1300)

NOEC / 21d | 37 mg/l (daphnia) (OECD 211)

ErC50 / 72 h >110 mg/l (algae) (OECD 201)

(Contd. on page 9)



Page 9/13

Safety data sheet according to 1907/2006/EC, Article 31

Version number 5 (replaces version 4) Printing date 29.02.2024 Revision: 29.02.2024

Trade name: Signum zirconia bond II

	(Contd. of page 8)
NOEC / 72h	110 mg/l (algae) (OECD 201)
NOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)
EbC50 / 72h	>110 mg/l (algae) (OECD 201)
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)
LC50/ 35d	33.7 mg/L (fish) (OECD 210)
72869-86-4 7 L	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)
LC50/96h	10.1 mg/l (fish) (OECD 203)
ErC50 / 72 h	>0.68 mg/l (algae) (OECD 201)
NOEC / 72h	0.21 mg/l (algae) (OECD 201)
75980-60-8 d	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
EC50/48h	10,100 mg/l (algae)
	3.53 mg/l (daphnia) (OECD 202)
LC50/96h	1.4 mg/l (fish) (OECD 203)
ErC50 / 72 h	>2.01 mg/l (algae) (OECD 201)
ErC10/72h	1.56 mg/L (algae) (OECD 201)
	ence and degradability
	hyl methacrylate
	on 94 % /14d (not defined) (OECD 301C)
	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
	on 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Biodegradati	on 0-10 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
	umulative potential
	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
	ation factor (BCF) 47-55 (not defined)

- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment PBT: Not applicable.

 - · vPvB: Not applicable.

• 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.
• 12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 10)



Page 10/13

(Contd. of page 9)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024

Version number 5 (replaces version 4)

Revision: 29.02.2024

Trade name: Signum zirconia bond II

Disposal must be made according to official regulations.

- · Uncleaned packagings:

Recommendation:
Disposal must be made according to official regulations.
Non contaminated packagings can be used for recycling.

14.1 UN number or ID number · ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name ADR	1993 FLAMMABLE LIQUID, N.O.S., spec provision 640D (METHYL METHACRYLA MONOMER, STABILIZED, 7,7,9(or 7,9, trimethyl-4,13-dioxo-3,14-dioxa-5,3 diazahexadecane-1,16-diyl bismethacrylate)
· IMDG	FLAMMABLE LIQUID, N.O.S. (METH METHACRYLATE MONOMER, STABILIZE 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dio 5,12-diazahexadecane-1,16-d bismethacrylate), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (METH
	METHACRYLATE MONOMER, STABILIZE 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dio 5 , 1 2 - d i a z a h e x a d e c a n e - 1 , 1 6 - d bismethacrylate)
· 14.3 Transport hazard class(es) · ADR	
· Class · Label	3 (F1) Flammable liquids.
· IMDG	
1 1 1 1 1 1 1 1 1 1	



Page 11/13

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024

Version number 5 (replaces version 4)

Revision: 29.02.2024

Trade name: Signum zirconia bond II

	(Contd. of page 10
· Label	3
· IATA	
· Class · Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No Symbol (fish and tree) Symbol (fish and tree)
Special marking (ADR):	·
· 14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E, <u>S-E</u> B
· 14.7 Maritime transport in bulk according to IM instruments	10 Not applicable.
· Transport/Additional information:	-
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category · Tunnel restriction code	packaging. 500 mi 2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
	(Contd. on page 12

– ĠB



Page 12/13

Safety data sheet according to 1907/2006/EC, Article 31

Version number 5 (replaces version 4) Printing date 29.02.2024 Revision: 29.02.2024

Trade name: Signum zirconia bond II

(Contd. of page 11)

UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, 7,7,9(OR 7,9,9)-TRIMETHYL-4,13-DIOXO-3,14-DIOXA-5,12-DIAZAHEXADECANE-1,16-DIYL BISMETHACRYLATE), 3, II

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Directive 2012/18/EU
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H225 Highly flammable liquid and vapour.

H242 Heating may cause a fire.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Suspected of damaging fertility. H361f

H400 Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects. H411

Harmful to aquatic life with long lasting effects.

EUH204 Contains isocyanates. May produce an allergic reaction.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature SAPT: Self Accelerating Polymerisation Temperature

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent, Bloaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Org. Perox. C: Organic peroxides – Type C/D

(Contd. on page 13)



Page 13/13

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.02.2024

Version number 5 (replaces version 4)

Revision: 29.02.2024

Trade name: Signum zirconia bond II

(Contd. of page 12)

Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
* * Data compared to the previous version altered.

GB