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

1.1 Product identifier

Commercial Product Name	TriVest

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

Relevant identified uses	Investment material for crowns and bridges Auxiliary for dental technology
Recommended restrictions	No information available.

1.3 Details of the supplier of the safety data sheet

Company designation	HPdent GmbH Erwin-Dietrich-Straße 5 78244 Gottmadingen +49 7731 38 11 044 +49 7731 31 97 123 info@hpdent.com
Responsible Department	Regulatory Affairs

1.4 Emergency telephone number

Emergency telephone number	During opening hours: +49 7731 38 11 044 Opening hours Mo - Th from 8.30 a.m. to 5 p.m. / Fr from 08.30 a.m. to 4 p.m. (CET).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008	Classification according to Regulation (EC) No 1272/2008 [CLP] H372: Causes damage to organs Lungs through prolonged or repeated exposure. Route of exposure: Inhalation .

2.2 Label elements

Hazard pictogram

GHS08

Signal word	Danger
H-statement(s)	H372: Causes damage to organs Lungs through prolonged or repeated exposure. Route of exposure: Inhalation .
P-statement(s)	P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P314: Get medical advice/attention if you feel unwell.
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Health hazard: Risk of lung damage (silicosis).

Hazard precautions: Special danger of slipping by leaking/spilling product.
Results of PBT and vPvB assessment: Not applicable

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
alpha-Quartz	CAS No. : 14808-60-7 EC-No. : 238-878-4	STOT RE 1; H372i	50.0 - 100.0 % by weight
Cristobalite	CAS No. : 14464-46-1 EC-No. : 238-455-4	STOT RE 1; H372i	10.0 - 25.0 % by weight
Magnesium oxide	CAS No. : 1309-48-4 EC-No. : 215-171-9		<= 10.0 % by weight
Aluminum oxide	CAS No. : 1344-28-1 EC-No. : 215-691-6		< 2.5 - 10.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled: Provide fresh air.
In case of persisting adverse effects, consult a physician.

In case of skin contact: Rinse skin with water/shower.
Generally the product does not irritate the skin.

In case of eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Mechanical effects only.

If swallowed: Rinse mouth thoroughly with water.
In case of persisting adverse effects, consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention: No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	Nitrogen oxides (NOx) Ammonia

5.3 Advice for firefighters

Special protective equipment for firefighting	In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear suitable protective clothing. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid dust formation.

6.2 Environmental precautions

Environmental precautions	Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Take up mechanically.

6.4 Reference to other sections

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	Take care that activity is executed only by specialists or authorised personnel. For use in dentistry only. Provide good ventilation. Avoid dust formation.

	Use approved industrial vacuum cleaner for removal.
Advice on protection against fire and explosion	No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements	Keep only in the original container.
Hints on storage assembly	not required
Storage specifications	Keep container tightly closed.

7.3 Specific end use(s)

Specific use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

alpha-Quartz

Germany			
Value / mg/m3	**Ceiling Limit Value**	**Remarks**	**Source**
1,25		Alveolar fraction	100
10	2 (II)	Inhalable fraction	100

Source : 100 - Company data

Denmark			
Value / mg/m3	**Note**	**Remarks**	**Source**
0,3		total	21
0,1	K	respirable	21

Source : 21 - Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / mg/m3	**Note**	**Source**
0,3	K, total dust; Dust alpha-quartz, cristobalite and / or tridymite from sum formula (see section on Combination Effects). At the same time, standards of annoying dust are observed.	17
0,1	K, respirable dust; Dust alpha-quartz, cristobalite and / or tridymite from sum formula (see section on Combination Effects). At the same time, standards of annoying dust are observed.	17

Source : 17 - Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden				
Long-term exposure value/ mg/m3	**Issuing date**	**Note**	**Remarks**	**Source**
0,1	1996	respirable dustC, M	*1)	25

			*2) *3) *4) Se även Kommentarer till not 2 på sid 56.	

*1): Med inhalerbart damm menas den dammfraktion som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.3 och som har en provtagningskaraktäristik enligt punkt 5.1.
*2): Med respirabelt damm menas den dammfraktion som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningskaraktäristik enligt punkt 5.3.
*3): Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt
*4): 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod.
Source : 25 - HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland			
Long-term exposure value/ mg/m3	**Remarks**	**Issuing date**	**Source**
0,05	Alveolar fraction	2007	23

Source : 23 - HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PITOISUUDET

Austria			
Area of validity	**Annual average**	**Remarks**	**Source**
MAK	0,15 A	*1) The assessment period is one year	15

*1): Alveolar dust; Annual average value until 31.12.2013;
Source : 15 - Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland				
Long-term exposure value/ mg/m3	**Notations**	**Critical toxicity**	**Remarks**	**Source**
0,15 a	P C1A SSC	Silicosis, Lung cancer	HSE, NIOSH,OSHA	26

Source : 26 - Grenzwerte am Arbeitsplatz 2015 (SUVA)

USA (ACGIH)			
Long-term value	**Basis**	**Remarks**	**Source**
0,025 mg/m³	Pulmonary fibrosis, lung cancer	Suspected human Carcinogen Respirable fraction	27

Source : 27 - ACGIH Threshold Limit Values for Chemical Substances 2008

Spain			
Long-term exposure value/ mg/m3	**Remarks**	**Note**	**Source**
0,05	Respirable fraction	n, d, y, see ITC/2582/2007	22

Source : 22 - Límites de exposición profesional para Agentes Químicos 2014

France			
Long-term exposure value/ mg/m3	**TMP n°**	**FT n°**	**Source**
0,1 a	25	232	20

Source : 20 - Valeurs limites d'exposition professionelle aux agents chimiques en ...

Belgium		
Long-term exposure value/ mg/m3	**Remarks**	**Source**

0,1	Alveolar dust	35

Source : 35 - Liste de valeurs limites d'expositions professionnelle aux agents ...

Netherlands		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
0,075	Voor respirabel stof.	18

Source : 18 - Lijst met wettelijke grenswaarden 2011

Ireland		
Long-term exposure value/ mg/m3	**Note**	**Source**
0.1	respirable dust	32

Source : 32 - Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary		
Maximum admissible concentration /mg/m3	**Remarks**	**Source**
0,15	respirable	31

Source : 31 - 25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
0,1	*1)	29

*1): respirable dust; Fine dust is dust that reaches the lung section
Source : 29 - Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
0,15 (A)	Y	77

Source : 77 -

Slovakia		
Long-term exposure value/ mg/m3	**Carcinogenic**	**Source**
0,1 (R)11)	1	34

Source : 34 - o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou...

Lithuania		
Short-term exposure value / mg/m3	**Remarks**	**Source**
0,1	alveolinū frakcija	36

Source : 36 -

Cristobalite

Denmark			
Value / mg/m3	**Note**	**Remarks**	**Source**
0,15		total	21
0,05	K	respirable	21

Source : 21 - Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / mg/m3	**Note**	**Source**

0,15	K, total dust; Dust alpha-quartz, cristobalite and / or tridymite from sum formula (see section on Combination Effects). At the same time, standards of annoying dust are observed.	17
0,05	K, respirable dust; Dust alpha-quartz, cristobalite and / or tridymite from sum formula (see section on Combination Effects). At the same time, standards of annoying dust are observed.	17

Source : 17 - Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden				
Long-term exposure value/ mg/m3	**Issuing date**	**Note**	**Remarks**	**Source**
0,05	1996	respirable dustC, M	*1) *2) *3) *4) Se även Kommentarer till not 2 på sid 56.	25

*1): Med inhalerbart damm menas den dammfraktion som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.3 och som har en provtagningskaraktäristik enligt punkt 5.1.
*2): Med respirabelt damm menas den dammfraktion som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningskaraktäristik enligt punkt 5.3.
*3): Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt
*4): 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod.
Source : 25 - HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Finland			
Long-term exposure value/ mg/m3	**Remarks**	**Issuing date**	**Source**
0,05	Alveolar fraction	2007	23

Source : 23 - HTTP-arvot 2012:5 HAITALLISIKSI TUNNETUT PITOISUUDET

Austria		
Area of validity	**Annual average**	**Source**
MAK	0,15 A	15

Source : 15 - Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland				
Long-term exposure value/ mg/m3	**Notations**	**Critical toxicity**	**Remarks**	**Source**
0,15 a	P C1A SSC	Silicosis, Lung cancer	HSE, NIOSH,OSHA	26

Source : 26 - Grenzwerte am Arbeitsplatz 2015 (SUVA)

USA (ACGIH)			
Long-term value	**Basis**	**Remarks**	**Source**
0,025 mg/m³	Pulmonary fibrosis, lung cancer	Suspected human Carcinogen Respirable fraction	27

Source : 27 - ACGIH Threshold Limit Values for Chemical Substances 2008

Spain			
Long-term exposure value/ mg/m3	**Remarks**	**Note**	**Source**
0,05	Respirable fraction	n, d, y, see ITC/2582/2007	22

Source : 22 - Límites de exposición profesional para Agentes Químicos 2014

France			
Long-term exposure value/ mg/m3	**TMP n°**	**FT n°**	**Source**
0,05 a	25	232	20

Source : 20 - Valeurs limites d'exposition professionelle aux agents chimiques en ...

Belgium		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
0,05	Alveolar dust	35

Source : 35 - Liste de valeurs limites d'expositions professionnelle aux agents ...

Netherlands		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
0,075	Voor respirabel stof.	18

Source : 18 - Lijst met wettelijke grenswaarden 2011

Ireland		
Long-term exposure value/ mg/m3	**Note**	**Source**
0.1	respirable dust	32

Source : 32 - Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary		
Maximum admissible concentration /mg/m3	**Remarks**	**Source**
0,15	respirable	31

Source : 31 - 25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
0,05	respirable dust	29

Source : 29 - Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia	
Long-term exposure value/ mg/m3	**Source**
0,15 (A)	77

Source : 77 -

Lithuania		
Short-term exposure value / mg/m3	**Remarks**	**Source**
0,05	alveolinū frakcija	36

Source : 36 -

Magnesium oxide

Denmark		
Value / mg/m3	**Remarks**	**Source**
6	Calculated as Mg	21

Source : 21 - Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / mg/m3	**Note**	**Source**
10	The standard is the same for contaminated dust to the standard.	17

Source : 17 - Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Poland		
Long-term exposure value/ mg/m3	**Note**	**Source**
10	Inhalable fraction	28

Source : 28 - ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerw...

Austria						
Area of validity	**Long-term exposure value/ mg/m3**	**Short-term exposure value / mg/m3**	**Duration**	**Frequency per shift**	**Remarks**	**Source**
MAK	10 E	20 E	60(Miw)	2x		15
MAK	5 A	10 A	60(Miw)	2x		15
MAK	0,2	20 A	15(Miw)	4x	fume	15

Source : 15 - Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland			
Long-term exposure value/ mg/m3	**Notations**	**Remarks**	**Source**
3 a	SSC	NIOSH see 1.8.2	26
3a		NIOSH; fume	26

Source : 26 - Grenzwerte am Arbeitsplatz 2015 (SUVA)

USA (ACGIH)			
Long-term value	**Basis**	**Remarks**	**Source**
10 mg/m³	Irritation, metal fume fever	Not classifiable as a Human Carcinogen Inhalable fraction	27

Source : 27 - ACGIH Threshold Limit Values for Chemical Substances 2008

Spain		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
10	dust and vapour	22

Source : 22 - Límites de exposición profesional para Agentes Químicos 2014

France		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
10	fume	20

Source : 20 - Valeurs limites d'exposition professionelle aux agents chimiques en ...

Belgium		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
10	fume	35

Source : 35 - Liste de valeurs limites d'expositions professionnelle aux agents ...

Great Britain		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
10	inhalable dust; (as Mg)	19
4	fume and respirable dust	19

Source : 19 - EH40/2005 Workplace exposure limits (2011)

Czech Republic		
Long-term exposure value/ mg/m3	**Short-term exposure value / mg/ m3**	**Source**
5	10	30

Source : 30 - NARÍZENÍ VLÁDY ze dne 12.prosince 2007 keterym se stanovi podmýnky oc...

Ireland			
Long-term exposure value/ mg/m3	**Short-term exposure value / mg/m3**	**Note**	**Source**
4		respirable dust	32
5	10	fume	32
10		total inhalable dust	32

Source : 32 - Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary				
Long-term exposure value/ mg/m3	**Short-term exposure value / mg/m3**	**Note**	**Remarks**	**Source**
6	24	i	Respirable fraction	31

Source : 31 - 25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia
Source
1
1

Source : 1 - UMCO

Slovenia	
Carcinogenic	**Source**
	1
4	1

Source : 1 - UMCO

Lithuania	
Short-term exposure value / mg/m3	**Source**
4	36

Source : 36 -

Bulgaria

Long-term exposure value/ mg/m3	Source
10	81

Source : 81 -

Romania			
Long-term exposure value/ mg/m3	Short-term exposure value / mg/m3	Remarks	Source
5	15	fume	79

Source : 79 -

Greece				
Long-term exposure value/ mg/m3	Note	Greece	Language	Source
10	ειστπν.			80
5	αναπν.			80
10	ειστπν.	Anisidin (alle Isomere)	German	80
5	αναπν.			80

Source : 80 -

Aluminum oxide

Denmark		
Value / mg/m3	Remarks	Source
5	Calculated as Al, total	21
2	Calculated as Al, respirable	21

Source : 21 - Bekendtgørelse om ændring af bekendtgørelse om grænseværdier for ...

Norway		
Value / mg/m3	Note	Source
10	The standard is the same for contaminated dust to the standard.	17

Source : 17 - Veiledning om administrative normer for forurensning i arbeidsatmosfæ...

Sweden				
Long-term exposure value/ mg/m3	Issuing date	Note	Remarks	Source
5	1996	as Altotal dust	*1) *2) *3) *4) Se även Kommentarer till not 2 på sid 56.	25
2	1996	als Al Feinstaub	*1) *2) *3) *4) Se även Kommentarer till not 2 på sid 56.	25

*1): Med inhalerbart damm menas den dammfraktion som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.3 och som har en provtagningskaraktäristik enligt punkt 5.1.
*2): Med respirabelt damm menas den dammfraktion som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningskaraktäristik enligt punkt 5.3.
*3): Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt
*4): 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod.
Source : 25 - HYGIENISKA GRÄNSVÄRDEN OCH ÅTGÄRDER MOT LUFTFÖRORENINGAR 2011:18

Poland		
Long-term exposure value/ mg/m3	**Note**	**Source**
2,5	Inhalable fraction, Calculated as Al	28
1,2	Respirable fraction, Calculated as Al	28

Source : 28 - ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOLECZNEJ1) z dnia 16 czerw...

Austria						
Area of validity	**Long-term exposure value/ mg/m3**	**Short-term exposure value / mg/m3**	**Duration**	**Frequency per shift**	**Remarks**	**Source**
	5 A	10 A	60(Miw)	2x	fume, (Alveolar dust)	15
MAK	5 A	10 A	60(Miw)	2x		15

Source : 15 - Stoffliste (MAK-Werte und TRK-Werte 2012)

Switzerland					
Long-term exposure value/ mg/m3	**Short-term exposure value / mg/m3**	**Notations**	**Critical toxicity**	**Remarks**	**Source**
3a		B	Formal{KT}	NIOSH see 1.8.2	26
3a	24 a		Metallrauch{KT HU}	NIOSH see 1.8.2	26

Source : 26 - Grenzwerte am Arbeitsplatz 2015 (SUVA)

USA (ACGIH)			
Long-term value	**Basis**	**Remarks**	**Source**
10 mg/m³	Lung, irritation	Not classifiable as a Human Carcinogen *1) crystalline silica	27

*1): The value is for particulate matter containing no asbestos and < 1 %
Source : 27 - ACGIH Threshold Limit Values for Chemical Substances 2008

Spain		
Long-term exposure value/ mg/m3	**Note**	**Source**
10	e	50
10		22

Source : 22 - Límites de exposición profesional para Agentes Químicos 2014

France			
Long-term exposure value/ mg/m3	**FT n°**	**Issuing date**	**Source**
10	306	1985	20

Source : 20 - Valeurs limites d'exposition professionelle aux agents chimiques en ...

Belgium		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
1	Alveolar fraction	35

Source : 35 - Liste de valeurs limites d'expositions professionnelle aux agents ...

Great Britain		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
10	inhalable dust	19
4	respirable dust	19

Source : 19 - EH40/2005 Workplace exposure limits (2011)

Ireland		
Long-term exposure value/ mg/m3	**Note**	**Source**
10	total inhalable dust	32
4	respirable dust	32

Source : 32 - Code of Practice for the Safety Health and Welfare at Work (2011)

Hungary	
Long-term exposure value/ mg/m3	**Source**
6 resp	31

Source : 31 - 25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai b...

Estonia		
Long-term exposure value/ mg/m3	**Remarks**	**Source**
4	1; peentolm	29
10	1; kogu tolm	29

Source : 29 - Töökeskkonna keemiliste ohutegurite piirnormid 11.10.2007 nr 223 (RT ...

Slovenia	
Carcinogenic	**Source**
	1
4	1

Source : 1 - UMCO

Lithuania		
Short-term exposure value / mg/ m3	**Remarks**	**Source**
5	kaip Al: ūkvepiamoji frakcija	36
2	kaip Al: alveolinū frakcija	36

Source : 36 -

Romania				
Long-term exposure value/ mg/m3	**Long-term exposure value/ ppm**	**Short-term exposure value / mg/m3**	**Short-term exposure value / ppm**	**Source**
2	0,5	5	1,2	79

Source : 79 -

Greece				
Long-term exposure value/ mg/m3	**Note**	**Greece**	**Language**	**Source**
10	ειστπν.			80
5	αναπν.			80
10	ειστπν.	Anisidin (alle Isomere)	German	80
5	αναπν.			80

Source : 80 -

8.2 Exposure controls

Respiratory protection	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Respiratory filter (part):: FP2 - FP3
Hand protection	Hand protection is not required
Eye protection	Dust protection eye glasses
General protective and hygiene measures	Usual hygienic measures ofr dental practice and dental laboratories. Vaccum clean contaminated clothing. Do not blow or brush off contamination. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	powders
Colour	white
Odour	odourless
Odour threshold	Not applicable.
Melting point [°C] / Freezing point [°C]	> 1400 °C
Boiling point [°C]	not determined
Boiling range [°C]	not determined
Flash point [°C]	Not applicable
Evaporation rate [kg/(s*m²)]	Not applicable.
Flammability (solid, gas)	Not applicable
Explosion limits [Vol-%]	Not applicable
Explosion limits	Not applicable
Vapour pressure [kPa]	Not applicable
Vapour density	not determined
Density [g/cm³]	not determined
Relative density	not determined
Relative density of a vapour / air mixture (saturated)	not determined
Water solubility [g/l]	No data available

Partition coefficient n-octanol / water (log P O/W)	not determined
Viscosity, dynamic [kg/(m*s)]	Not applicable
Viscosity, kinematic [mm²/s]	Not applicable.

9.2 Other information

Bulk density [kg/m³]	1150 kg/m3
Temperature	20 °C
Miscibility with water	The product is hygroscopic. Product hardens with the addition of water.
Solvent content [%]	0,0 %
Other data	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity	No further relevant information available.

10.2 Chemical stability

Chemical stability	Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions	No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Conditions to avoid	Protect from humid air and water.

10.5 Incompatible materials

Materials to avoid	No further relevant information available.

10.6 Hazardous decomposition products

Hazardous decomposition products	No hazardous reaction when handled and stored according to provisions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral toxicity [mg/kg]	Based on available data, the classification criteria are not met.

Dermal toxicity [mg/kg]	Based on available data, the classification criteria are not met.
Inhalative toxicity [mg/l]	Based on available data, the classification criteria are not met.
Irritant effect on skin	Based on available data, the classification criteria are not met.
Irritant effect on eyes	Based on available data, the classification criteria are not met.
Irritant effect on the respiratory tract	Based on available data, the classification criteria are not met.
Sensitization	Based on available data, the classification criteria are not met.
Carcinogenic effects	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproduction toxicity	Based on available data, the classification criteria are not met.
Caustic effect	Based on available data, the classification criteria are not met.
Dermal absorption data	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure) [mg/kg]	Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure) [mg/kg]	Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity [mg/l]	No further relevant information available.

12.2 Persistence and degradability

Elimination and distribution mechanisms	No further relevant information available.
Elimination in purification plant	No further relevant information available.
Biodegradability	No further relevant information available.

12.3 Bioaccumulative potential

Bioaccumulation	No further relevant information available.
Bioconcentration factor (BCF)	No further relevant information available.

12.4 Mobility in soil

Distribution in the environment	No further relevant information available.
Mobility	
Mobility	No further relevant information available.

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination	Not applicable
Results of PBT and vPvB assessment	Not applicable

12.6 Other adverse effects

Further information on ecology	No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
0	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

Precautions	Not applicable

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

Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

SECTION 15: Regulatory information

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

Water Hazard Class (Ger.)	schwach wassergefährdend (WGK 1)
Source	Classification according to VwVwS, Annex 2.

References to substance in ordinances, regulations and information sheets	Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Wording of the hazard classes	STOT RE: Specific target organ toxicity - repeated exposure
Recommended restrictions	No information available.

Modifications of the previous version are denoted with an asterisk (*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.