

Safety Data Sheet **Temp Bond Modifier**

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. **Product identifier**

· Temp Bond Modifier

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

·

Relevant identified uses

Main use category

Product name

Function or use category

Professional use · Dental materials.

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Kerr Italia S.r.l. Via Passanti, 332 84018 Scafati (SA) - Italy T+39-081-850-8311 E-mail: safety@kerrhawe.com

Contact person : safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)

1.4. **Emergency telephone number**

Emergency number

CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3887

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

Manufacturer

Kerr Italia S.r.l

Via Passanti, 332

T +39-081-850-8311

84018 Scafati (SA) - Italy

E-mail: safety@kerrhawe.com

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 2

Full text of classification categories and H statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

¥2	
GHS09	

H411

- Hazard statements (CLP) Precautionary statements (CLP)
- Extra phrases

Signal word (CLP)

- H411 Toxic to aquatic life with long lasting effects P273 - Avoid release to the environment
- P391 Collect spillage
- P501 Dispose of contents/container to ...
- The product is seen as a medical device and therefore not subject to labelling (EUregulation 1907/2006, article 2, paragraph 6c).

2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc oxide	(CAS No) 1314-13-2 (EC no) 215-222-5 (EC index no) 030-013-00-7 (REACH-no) 01-2119463881-32	=>5-<15	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES	
4.1. Description of first aid measures	
First-aid measures general	: No particular/specific measures required.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	s, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medical	attention and special treatment needed
No specific measures identified.	
SECTION 5: FIREFIGHTING MEASUR	ES
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide (CO2) and powder.
5.2. Special hazards arising from the sub-	stance or mixture
Fire hazard	: Non flammable.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: ACCIDENTAL RELEASE	MEASURES
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: Avoid contact with skin and eyes.
For non-emergency personnel	
Protective equipment	: See Heading 8.
For emergency responders	
No additional information available	
6.2. Environmental precautions	
Discharging into rivers and drains is forbidden.	
6.3. Methods and material for containmer	t and cleaning up
For containment	: Collect all waste in suitable and labelled containers and dispose according to local
	legislation.

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6.4. Reference to other sections

For further information refer to section 13.

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SECTI	ON 7: HANDLING AND STO	E			
7.1.	Precautions for safe handling				
Precauti	ons for safe handling	Do not eat, drink or smoke when using this product.			
7.2.	7.2. Conditions for safe storage, including any incompatibilities				
Storage	conditions	Store in a dry place. Store in a closed container. Store in original container.			
Incompa	tible products	Oxidizing agent. Strong acids.			
Incompa	tible materials	Acids.			
Storage	area	Store in a well-ventilated place.			
7.3.	Specific end use(s)				
Consult	the supplier for further information.				
SECTI	ON 8: EXPOSURE CONTRO	ERSONAL PROTECTION			
8.1.	Control parameters				
No additional information available					
8.2.	Exposure controls				
Appropri	ate engineering controls	Ensure good ventilation of the work station.			
Persona	I protective equipment	Gloves. Safety glasses.			
Hand pro	otection	Wear suitable gloves. Chemical resistant PVC gloves (to European standard equivalent). Layer thickness : 0,09mm. Breakthrough time : >480 min	EN 374 or		
Eye prot	ection	Safety glasses. STANDARD EN 166.			
Skin and	I body protection	Wear suitable protective clothing			
Respirat	ory protection	Respiratory protection not applicable			
m					



Other information

: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMI	CA	L PROPERTIES		
9.1. Information on basic physical and chemical properties				
Physical state	:	Liquid		
Appearance	:	Paste.		
Colour	:	white.		
Odour	:	none to slight.		
Odour threshold	:	No data available		
рН	:	No data available		
Relative evaporation rate (butylacetate=1)	:	No data available		
Melting point	:	No data available		
Freezing point	:	No data available		
Boiling point	:	No data available		
Flash point	:	No data available		
Auto-ignition temperature	:	No data available		
Decomposition temperature	:	No data available		
Flammability (solid, gas)	:	No data available		
Vapour pressure	:	>		
Relative vapour density at 20 °C	:	No data available		
Relative density	:	>1		
Solubility	:	Material insoluble in water.		
Log Pow	:	No data available		
Viscosity, kinematic	:	No data available		
Viscosity, dynamic	:	No data available		
Explosive properties	:	Product is not explosive.		

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Oxidising properties Explosive limits

: No data available

:

9.2. Other information

Additional information

: None to our knowledge

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No polymerization.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

: May cause irritation to the digestive tract

zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	> 7950 mg/kg Oral, mouse
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	0.57 mg/l/4h
Skin corrosion/irritation	: Slight skin irritant.
Serious eye damage/irritation	: Eye irritation is also possible
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Under normal conditions of use, no adverse effects to health have been observed.

SECTION 12: ECOLOGICAL INFORMA	SECTION 12: ECOLOGICAL INFORMATION				
12.1. Toxicity					
Ecology - water :	Toxic to aquatic life with long lasting effects.				
zinc oxide (1314-13-2)					
LC50 fish 1	1.1 mg/l 96 h (Onchorhyncus mykiss)				
EC50 Daphnia 1	24.6 48 h (Daphnia magna)				
12.2. Persistence and degradability					
Temp Bond Modifier					
Persistence and degradability	No data available.				
12.3. Bioaccumulative potential					

Temp Bond Modifier Bioaccumulative potential No data. zinc oxide (1314-13-2) Bioconcentration factor (BCF REACH) 92 92

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2.4. Mobility in soil	
Temp Bond Modifier	
Ecology - soil	Slightly soluble.
12.5. Results of PBT and vPvB assess	sment
Temp Bond Modifier	
•	PBT criteria of REACH regulation, annex XIII
	/PvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Additional information	: No other effects known
SECTION 13: DISPOSAL CONSID	ERATIONS
13.1. Waste treatment methods	
Regional legislation (waste)	: Dispose as hazardous waste.
Waste treatment methods	: Recover the product with absorbent material. Dispose of contents/container in accordance
Maata diapagal recommandetions	with licensed collector's sorting instructions.
Waste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
Ecology - waste materials European List of Waste (LoW) code	 Avoid release to the environment. 18 01 06* - chemicals consisting of or containing dangerous substances
Luropean List of Waste (LUW) COUR	
SECTION 14: TRANSPORT INFOR	RMATION
n accordance with ADR / RID / IMDG / IATA	/ ADN
14.1. UN number	
UN-No. (ADR)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (IATA)	: 3077
UN-No. (RID)	: 3077
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s.
Proper Shipping Name (RID)	Not applicable
Transport document description (ADR)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc
	oxide(1314-13-2)), 9, III, (E)
Transport document description (IMDG)	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: 9
Danger labels (ADR)	: 9
IMDG Transport hazard class(es) (IMDG)	: 9
Danger labels (IMDG)	: 9
Transport hazard class(es) (IATA)	: 9

Transport hazard class(es) (IATA) Hazard labels (IATA)

: 9

: No supplementary information available



RID

Transport hazard class(es) (RID)



:

14.4.	Packing group		
Packing group (ADR)		:	III
Packing group (IMDG)		:	III
Packing group (IATA)		:	III
Packing group (RID)		:	Not applicable
14.5.	Environmental hazards		
Dangerous for the environment		:	Yes

: Yes

Dangerous for the environment Marine pollutant Other information

14.6. Special precautions for user

- Overland transport		
Classification code (ADR)	:	M7
Special provisions (ADR)	:	274, 335, 601, 375
Limited quantities (ADR)	:	5kg
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P002, IBC08, LP02, R001
Special packing provisions (ADR)	:	PP12, B3
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	T1, BK1, BK2
Portable tank and bulk container special provisions (ADR)	:	TP33
Tank code (ADR)	:	SGAV, LGBV
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V13
Special provisions for carriage - Bulk (ADR)	:	VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13
Hazard identification number (Kemler No.)	:	90
Orange plates	:	90 3077
Tunnel restriction code (ADR)	:	E
EAC code	:	2Z
- Transport by sea		
Special provisions (IMDG)	:	274, 335, 966, 967
Limited quantities (IMDG)	:	5 kg
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P002, LP02
Special packing provisions (IMDG)	:	PP12
IBC packing instructions (IMDG)	:	IBC08
IBC special provisions (IMDG)	:	B3

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Tank instructions (IMDG)	:	T1, BK1, BK2, BK3	
Tank special provisions (IMDG)	:	TP33	
EmS-No. (Fire)	:	F-A	
EmS-No. (Spillage)	:	S-F	
Stowage category (IMDG)	:	A	
Stowage and segregation (IMDG)	:	When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.	
- Air transport			
PCA Excepted quantities (IATA)	:	E1	
PCA Limited quantities (IATA)	:	Y956	
PCA limited quantity max net quantity (IATA)	:	30kgG	
PCA packing instructions (IATA)	:	956	
PCA max net quantity (IATA)	:	400kg	
CAO packing instructions (IATA)	:	956	
CAO max net quantity (IATA)	:	400kg	
Special provisions (IATA)	:	A97, A158, A179, A197	
ERG code (IATA)	:	9L	

Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHER INFORMATION

Indication of changes:

Regulatory information.

2.1	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	
3.2	Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]	
Date of issue	: 05/12/2008	
Revision date	: 28/08/2015	
Supersedes	: 30/09/2014	
Signature	: A. Åsebø Murel	
Full text of H- and EUH-statements:		
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
H400	Very toxic to aquatic life	

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.



Safety Data Sheet Temp-Bond[®] Clear[™] Base

Manufacturer

Kerr Corporation

1717 West Collins Avenue

T 00-800-41-050-505

safety@kerrhawe.com

92867 Orange - CALIFORNIA (U.S.A.)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. **Product identifier**

Product name

: Temp-Bond® Clear™ Base

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

Relevant identified uses

Main use category

Function or use category

: Professional use

Dental materials. ·

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Kerr Italia S.r.l. Via Passanti, 332 84018 Scafati (SA) - Italy T+39-081-850-8311 E-mail: safety@kerrhawe.com

Contact person : safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)

1.4. **Emergency telephone number**

Emergency number

CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3887

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Sens, 1 H317

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazardous ingredients	: 2-hydroxyethyl methacrylate
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction
Precautionary statements (CLP)	 P280 - Wear protective gloves, eye protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P501 - Dispose of contents/container to
EUH-statements	: EUH208 - Contains 2-hydroxyethyl methacrylate(868-77-9). May produce an allergic reaction
Extra phrases	: The product is seen as a medical device and therefore not subject to labelling (EU-
	Feconticon - SDS FIL v2 EN (English)

Temp-Bond® Clear™ Base

None under normal conditions.

regulation 1907/2006, article 2, paragraph 6c).

2.3. Other hazards

Other hazards not contributing to the classification

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acrylate resin		=>60-<80	Not classified
2-hydroxyethyl methacrylate	(CAS No) 868-77-9 (EC no) 212-782-2 (EC index no) 607-124-00-X (REACH-no) 01-2119490169-29	< 10	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES	
4.1. Description of first aid measures	
First-aid measures general	: No particular/specific measures required.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
4.3. Indication of any immediate medica	attention and special treatment needed
No specific measures identified.	
SECTION 5: FIREFIGHTING MEASUR	ES
5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the sul	stance or mixture
Fire hazard	: Non flammable.
Explosion hazard	: Product is not explosive.
Hazardous decomposition products in case of	: Carbon dioxide. Carbon monoxide. Halogenated hydrocarbons.

5.3. Advice for firefighters

Firefighting instructions Protection during firefighting

fire

Use water spray or fog for cooling exposed containers.Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

 6.1.
 Personal precautions, protective equipment and emergency procedures

 General measures
 : Avoid contact with skin and eyes. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact.

 For non-emergency personnel
 : See Heading 8.

 Emergency procedures
 : Evacuate unnecessary personnel.

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legislation.

Collect all waste in suitable and labelled containers and dispose according to local

For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment

Methods for cleaning up

s loi oleanning up

6.4. Reference to other sections For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE 7.1. Precautions for safe handling Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, Precautions for safe handling sparks, open flames and other ignition sources. No smoking. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Incompatible products Oxidizing agent. Strong acids. Store in a well-ventilated place. Storage area 7.3. Specific end use(s) Consult the supplier for further information. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1. **Control parameters**

Large spills: scoop solid spill into closing containers.

No additional information available

8.2. Exposure controls

Appropriate engineering controls:Ensure good ventilation of the work station.Personal protective equipment:Gloves. Safety glasses.Hand protection:Wear suitable gloves. Nitrile rubber gloves. Layer thickness : 0,09mm. Breakthrough time :
>480 min. STANDARD EN 374.Eye protection:Safety glasses. STANDARD EN 166.Skin and body protection:Wear suitable protective clothing

Respiratory protection not applicable

Respiratory protection

Other information



: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
9.1. Information on basic physical and c	hen	nical properties	
Physical state	:	Liquid	
Appearance	:	Paste.	
Colour	:	Colourless.	
Odour	:	Fruity.	
Odour threshold	:	No data available	
pН	:	No data available	
Relative evaporation rate (butylacetate=1)	:	No data available	
Melting point	:	No data available	
Freezing point	:	No data available	
Boiling point	:	No data available	
Flash point	:	No data available	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
Flammability (solid, gas)	:	No data available	

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: ≈
Relative density	: No data available
Solubility	: Material insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Product is stable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Oxidizing agent. Bases. alkalis.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects	
Acute toxicity	: Not classified
2-hydroxyethyl methacrylate (868-77-9)	
LD50 oral rat	5050 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
silica, amorphous, crystalline-free (112945-5	2-5)
LD50 oral rat	> 3160 mg/kg
LD50 dermal rabbit	> mg/kg
3-Methacryloxypropyltrimethoxysilane (2530	-85-0)
LD50 oral rat	> 30000 mg/kg
LD50 dermal rabbit	> 15000 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP
Carcinogenicity	: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP
Reproductive toxicity	: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Under normal conditions of use, no adverse effects to health have been observed.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

2-hydroxyethyl methacrylate (868-77-9) LC50 fish 1 227 mg/l (96 hours - Pimephales promelas) 12.2. Persistence and degradability Temp-Bond® Clear™ Base Persistence and degradability No data available. 2-hydroxyethyl methacrylate (868-77-9) Biodegradation 84 % (OECD 301D method) 12.3. **Bioaccumulative potential** Temp-Bond® Clear™ Base Bioaccumulative potential No data. 2-hydroxyethyl methacrylate (868-77-9) Bioconcentration factor (BCF REACH) 1,3 - 1,5 Log Pow 0.47 3-Methacryloxypropyltrimethoxysilane (2530-85-0) 0.75 Log Pow 12.4. Mobility in soil Temp-Bond® Clear™ Base Ecology - soil Slightly soluble.

12.5. Results of PBT and vPvB assessment

Temp-Bond® Clear™ Base

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information

: No other effects known

SECTION 13: DISPOSAL CONSID	DERATIONS
13.1. Waste treatment methods	
Regional legislation (waste)	: Dispose as hazardous waste.
Waste treatment methods	: Recover the product with absorbent material. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 18 01 06* - chemicals consisting of or containing dangerous substances
SECTION 14: TRANSPORT INFO	RMATION
In accordance with ADR / RID / IMDG / IAT/	A / ADN
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	

Transport hazard class(es) (IMDG)

IATA

Transport hazard class(es) (IATA)

: Not applicable

Not applicable

:

Temp-Bond® Clear™ Base

RID

Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary informatio

No supplementary information available 1

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea No data available

- Air transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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Not applicable
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SECTION 15: REGULATORY INFORMATION

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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

Chemical safety assessment 15.2.

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHER INFORMATION

Data sources :	: EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.	
Date of issue :	15/07/2015	
Revision date :	15/07/2015	
:		
Version :		
Signature : K. Dyreskog		
Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Sensitisation — Skin, Category 1	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
EUH208	Contains . May produce an allergic reaction	

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.



Safety Data Sheet Temp Bond Accelerator

Manufacturer

Kerr Italia S.r.l

Via Passanti, 332

T +39-081-850-8311

84018 Scafati (SA) - Italy

E-mail: safety@kerrhawe.com

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

: Temp Bond Accelerator

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

Relevant identified uses

Main use category Function or use category : Professional use Dental materials

Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Kerr Italia S.r.I. Via Passanti, 332 84018 Scafati (SA) - Italy T +39-081-850-8311 E-mail: safety@kerrhawe.com

Contact person : safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)

1.4. Emergency telephone number

Emergency number

CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3887

Country	Organisation/Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Newcastle Unit)	Claremont Place Newcastle-upon-Tyne, Newcastle	+44 191 2606182/+44 191 2606180 24H

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Extra phrases

The product is seen as a medical device and therefore not subject to labelling (EUregulation 1907/2006, article 2, paragraph 6c).

2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sink acetat dihhydrat	(CAS No) 5970-45-6 (REACH-no) N/A	=>0,5-<2	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Resin			Not classified
oligomere (NLP)			Not classified
	(CAS No) 97-53-0 (EC no) 202-589-1 (REACH-no) 01-2119971802-33		Not classified

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES				
4.1. Description of first aid measures				
First-aid measures general	: No particular/specific measures required.			
First-aid measures after inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.			
First-aid measures after skin contact	Gently wash with plenty of soap and water.			
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and			
	easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.			
First-aid measures after ingestion	ngestion : If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.			
4.2. Most important symptoms and effect	ts, both acute and delayed			
Symptoms/injuries	: In all cases of doubt, or when symptoms persist, seek medical attention.			
4.3. Indication of any immediate medical	attention and special treatment needed			
No specific measures identified.				
SECTION 5: FIREFIGHTING MEASUR	RES			
5.1. Extinguishing media				
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide (CO2) and			
	powder.			
5.2. Special hazards arising from the sul	ostance or mixture			
Fire hazard	: Non flammable.			
Explosion hazard	: Product is not explosive.			
Hazardous decomposition products in case of	: Carbon dioxide. Carbon monoxide.			
fire				
5.3. Advice for firefighters				
Firefighting instructions	: Use water spray or fog for cooling exposed containers.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.			
SECTION 6: ACCIDENTAL RELEASE	MEASURES			
6.1. Personal precautions, protective eq	uipment and emergency procedures			
General measures	: Wear appropriate personal protective equipment - see Section 8. Avoid contact with skin.			
For non-emergency personnel				
No additional information available				
For emergency responders				
No additional information available				
6.2. Environmental precautions Discharging into rivers and drains is forbidden.				
0.0				
6.3. Methods and material for containme				
For containment	 Collect all waste in suitable and labelled containers and dispose according to local legislation. 			
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.			
6.4. Reference to other sections				
For further information refer to section 13.				
SECTION 7: HANDLING AND STORA	GE			
7.1. Precautions for safe handling				
Precautions for safe handling	: Avoid contact with skin and eyes.			
č	·			

Temp Bond Accelerator

7.2.	.2. Conditions for safe storage, including any incompatibilities			
Storage	e conditions	:	Store in dry protected location to prevent any moisture contact. Keep container tightly closed. Store in original container. Store in a well-ventilated place.	
Incomp	atible products	:	Oxidizing agent. Strong acids.	
7.3.	Specific end use(s)			
Consul	t the supplier for further information.			
SECT	ION 8: EXPOSURE CONTROL	S/P	ERSONAL PROTECTION	
8.1.	Control parameters			
No add	itional information available			
8.2.	Exposure controls			
Approp	riate engineering controls	:	Ensure good ventilation of the work station.	
Person	al protective equipment	:	Gloves.	
Hand p	rotection	:	Wear suitable gloves. Neoprene. Layer thickness : 0,1 mm. Breakthrough time : > 60 minutes. STANDARD EN 374.	
Eye pro	otection	:	Use splash goggles when eye contact due to splashing is possible. STANDARD EN 166.	
Skin an	d body protection	:	Wear suitable protective clothing	
Respira	atory protection	:	No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation	

Other information

: Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
9.1. Information on basic physical and chemical properties				
Physical state :	Liquid			
Appearance :	Paste.			
Colour :	Yellow.			
Odour :	aromatic.			
Odour threshold :	No data available			
pH :	No data available			
Relative evaporation rate (butylacetate=1) :	No data available			
Melting point :	No data available			
Freezing point :	No data available			
Boiling point :	No data available			
Flash point :	No data available			
Auto-ignition temperature :	No data available			
Decomposition temperature :	No data available			
Flammability (solid, gas) :	No data available			
Vapour pressure :	No data available			
Relative vapour density at 20 °C :	No data available			
Relative density :	>1			
Solubility :	Poorly soluble in water.			
Log Pow :	No data available			
Viscosity, kinematic :	No data available			
Viscosity, dynamic :	No data available			
Explosive properties :	Product is not explosive.			
Oxidising properties :	No data available			
Explosive limits :	No data available			
9.2. Other information				
Additional information :	None to our knowledge			

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No polymerization.

10.4. Conditions to avoid

Heat. No flames. Eliminate all sources of ignition.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFO	ORMATION		
11.1. Information on toxicological effects			
Acute toxicity	: Not classified		
sink acetat dihhydrat (5970-45-6)			
LD50 oral rat	794 mg/kg		
(97-53-0)	7 94 Highky		
(57-55-6)	1930 mg/kg		
LD50 dermal rabbit	100 mg/kg		
LC50 inhalation rat (Vapours - mg/l/4h)	> 2.58 mg/l/4h		
Skin corrosion/irritation	Not classified		
	Repeated exposure may cause skin dryness or cracking		
Serious eye damage/irritation	: Not classified		
	Liquid splashes in the eve may cause irritation		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
	May cause respiratory irritation May cause drowsiness or dizziness		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
Potential adverse human health effects and symptoms	: Under normal conditions of use, no adverse effects to health have been observed.		
SECTION 12: ECOLOGICAL INFORM	IATION		

12.1. Toxicity Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.		
(97-53-0)			
LC50 fish 1	24 mg/l (96 hours - Pimephales promelas)		
12.2. Persistence and degradability			
Temp Bond Accelerator			
Persistence and degradability	No data available.		

Persistence and degradability

12.3. Bioaccumulative potential	
Temp Bond Accelerator	
Bioaccumulative potential	No data.
sink acetat dihhydrat (5970-45-6)	
Log Pow	0.09
(97-53-0)	
Bioconcentration factor (BCF REACH)	11.22

	Temp Bond Accelerator 28/08/20
sink acetat dihhydrat (5970-45-6)	
Log Pow	0.09
Log Pow	2.27
2.4. Mobility in soil	
Temp Bond Accelerator	Olishika salada
Ecology - soil	Slightly soluble.
I2.5. Results of PBT and vPvB ass	essment
Temp Bond Accelerator	
	ne PBT criteria of REACH regulation, annex XIII
	ne vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Other adverse effects	: None to our knowledge.
Additional information	: No other effects known
SECTION 13: DISPOSAL CONS	
13.1. Waste treatment methods	Desident is not been adapted as the
Regional legislation (waste)	: Product is not hazardous waste.
Naste treatment methods	 Recover the product with absorbent material. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Nasto disposal recommendations	5
Waste disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 18 01 07 - chemicals other than those mentioned in 18 01 06
SECTION 14: TRANSPORT INF	
n accordance with ADR / RID / IMDG / IA	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	· Net applicable
Transport hazaru class(es) (ADR)	: Not applicable
MDC	
	. Net evelophia
Transport hazard class(es) (IMDG)	: Not applicable
ΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4 Pooking group	
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
	: No
I4.5. Environmental hazards Dangerous for the environment	
14.5. Environmental hazards	 No No No supplementary information available

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

National regulations

EC-regulation 453/2010/EC, 1907/2006/EC (REACH), 1272/2008/EC (CLP), 790/2009/EC. Transport of dangerous goods (ADR/RID, IMDG, IATA/ICAO). Workplace exposure limits.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHER INFORMATION

Indication of changes:

Regulatory information.

H319

2.1	to Direc 67/548/	cation according tive EEC [DSD] or 5/EC [DPD]	Removed	
3.2	to Direc 67/548/	cation according tive EEC [DSD] or 5/EC [DPD]	Removed	
Date of issue	: 01/	/12/2008		
Revision date	: 28/	/08/2015		
Supersedes	: 30/	/09/2014		
Signature	: A.	Åsebø Murel		
Full text of H- and EUH-statements:				
Acute Tox. 4 (Oral)		Acute toxicity (oral), Category 4		
Eye Irrit. 2		Serious eye damage/eye irritation, Category 2		
H302		Harmful if swallo	wed	

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.

Causes serious eye irritation