Safety data sheet

according to 1907/2006/EC, Article 31

PRODUCTS, INC.

Printing date 20.08.2019

Revision: 17.04.2019

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

· Product identifier

- · Trade name: <u>Peak[™] Universal Bond</u>
- · Article number: 71057
- Index number: SDS 206-001.12
- **Relevant identified uses of the substance or mixture and uses advised against** Professional Dental Adhesive • **Application of the substance / the mixture** Professional Dental Adhesive
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Ultradent Products Inc. 505 W. Ultradent Drive (10200 S) South Jordan, UT 84095-3942 USA onlineordersupport@utradent.com

EC Responsible Person Ultradent Products GmbH Am Westhover Berg 30 51149 Cologne Germany Email: infoDe@ultradent.com Emergency Phone: +49(0)2203-35-92-0

• Further information obtainable from: Customer Service

• Emergency telephone number: During normal opening times: +1 (801) 553-4862 CHEMTREC (NORTH AMERICA) :(800) 424-9300 (INTERNATIONAL) : +(703) 527-3887

2 Hazards identification

· Classification og · Classification a		or mixture gulation (EC) No 1272/2008
GHS0)2 flame	
Flam. Liq. 3	H226	Flammable liquid and vapour.
Skin Corr. 1A	05 corrosion H314	Causas sayara skin hums and ava damaga
	нз14 Н318	Causes severe skin burns and eye damage. Causes serious eye damage.
GHS0		
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Ozone 1	H420	Harms public health and the environment by destroying ozone in the upper atmosphere
		(Contd. on page 2)

ade name:	Peak [™] Universal B	Sond
		(Contd. of pa
Aquatic	Chronic 3 H412	Harmful to aquatic life with long lasting effects.
· Label el	oments	
Labellin The Reg not appl to Art. I. Regulati are prov Hazard	g according to Regu ulation EC 1272/20 y to a medical devic 5 (d). Therefore, the	
0	-	
	determining compo	nents of labelling:
Methacr		
	xyethyl Methacrylate	2
Trade Se		
	hosphine Oxide	
	statements	: 1 1
H226	Flammable liqu	
H314 H317		kin burns and eye damage.
		llergic skin reaction.
		iratory irritation. May cause drowsiness or dizziness.
H412 H420		atic life with long lasting effects.
	onary statements	ealth and the environment by destroying ozone in the upper atmosphere
P101		al advice is needed, have product container or label at hand.
P102		t of reach of children.
P103		bel before use.
P210		vay from heat, hot surfaces, sparks, open flames and other ignition sources
1 210	smoking.	
P303+P		KIN (or hair): Take off immediately all contaminated clothing. Rinse skin with w
P305+P		YES: Rinse cautiously with water for several minutes. Remove contact lense
		and easy to do. Continue rinsing.
P310	-	tely call a POISON CENTER/doctor.
P405	Store loc	ked up.
P501	Dispose regulatio	of contents/container in accordance with local/regional/national/internations.
• Other ha	-	
	of PBT and vPvB as	sessment
	ot applicable.	
• vPvB: N	ot applicable.	
3 Compo	sition/informati	on on ingredients

• Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous compone	nts:	
	Ethyl Alcohol	>10- ≤ 20%
EINECS: 200-578-6	🚸 Flam. Liq. 2, H225	
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CAS: 868-77-9	2-Hydroxyethyl Methacrylate	Contd. of page 2) >10- <i>≤</i> 25%
EINECS: 212-782-2	() Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	-
CAS: 79-41-4	Methacrylic Acid	<i>≤</i> 6%
EINECS: 201-204-4	 ♦ Acute Tox. 3, H331; ♦ Skin Corr. 1A, H314; Eye Dam. 1, H318; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312 	
	Trade Secret	>2.5- <i>≤</i> 10%
	Skin Corr. 1A, H314	
CAS: 162881-26-7	Organophosphine Oxide	<i>≤</i> 2.5%
ELINCS: 423-340-5	🚸 Skin Sens. 1, H317; Aquatic Chronic 4, H413	
CAS: 128-37-0	Butylated Hydroxytoluene	<i>≤</i> 2.5%
EINECS: 204-881-4	🚯 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🚸 Acute Tox. 4, H302	
CAS: 56-95-1	Chlorhexidine Diacetate	≤ 0.2%
EINECS: 200-302-4	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🚸 Acute Tox. 4, H302	

4 First aid measures

• Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 *Firefighting measures*

- · Extinguishing media
- Suitable extinguishing agents: Foam, dry chemical, carbon dioxide
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- Advice for firefighters:
- Protective equipment:

General: Evacuate all personnel; use protective equipment for fire fighting. Use self-contained breathing apparatus when the product is involved in fire.

Mouth respiratory protective device.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.*
- Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

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 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
 Reference to other sections See Section 7 for information on safe handling.

7 Handling and storage

See Section 13 for disposal information.

· Handling:

• Precautions for safe handling: Keep away from heat and direct sunlight.

See Section 8 for information on personal protection equipment.

- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: See product labelling. Keep container tightly sealed.
- · Specific end use(s) Professional Dental Adhesive

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace:

64-17-5 Ethyl Alcohol

WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

79-41-4 Methacrylic Acid

WEL (Great Britain) Short-term value: 143 mg/m³, 40 ppm Long-term value: 72 mg/m³, 20 ppm

128-37-0 Butylated Hydroxytoluene

WEL (Great Britain) Long-term value: 10 mg/m³

• Additional information: The lists valid during the making were used as basis.

· Exposure controls

· Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

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· 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.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and cher General Information	nical properties
Appearance:	
Form:	Liquid
Colour:	Light yellow
Odour:	Acrylic
Odour threshold:	Not determined.
pH-value:	Not applicable (non-aqueous)
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	e: 60 °C
Flash point:	24 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	425 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

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		(Contd. of page
Explosion limits:		
Lower:	3.5 Vol %	
Upper:	15 Vol %	
Vapour pressure at 20 °C:	59 hPa	
Density at 20 °C:	1.1 g/cm ³	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
VOC (EC)	<20.00 %	
Solids content:	<15.0 %	
Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions: No dangerous reactions known.

· Conditions to avoid: No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

Oral	LD50	17,667 mg/kg	
Dermal	LD50	8,333 mg/kg (rabbit)	
Inhalative	LC50/4 h	118 mg/l	
64-17-5 E	thyl Alcohol		
Oral	LD50	5,600 mg/kg (Guinea pig)	
		<i>3,400 mg/kg (mouse)</i>	
		7,060 mg/kg (rat)	
	LC50 Fish	>10,000 mg/l (Fish)	
Inhalative	LC50/4 h	39 mg/l (mouse)	
	1		(Contd. on page

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		20,000 mg/l (rat)	(Contd. of pa
868-77-9	2-Hydroxyethyl M		
Oral	LD50	3,275 mg/kg (mouse)	
Orai		>5,000 mg/kg (rat)	
	LC50 Fish	>100 mg/l (Fish)	
Dermal	LD50	>3,000 mg/kg (rabbit)	
Dermai		agna) 24.1 mg/l (daphnia)	
79-41-4 M	lethacrylic Acid		
Oral	LD50	1,250 mg/kg (mouse)	
orui		1,060 mg/kg (rat)	
		1,200 mg/kg (rab)it)	
	LC50 Fish	86 mg/l (Fish)	
Dermal	LD50	1,000 mg/kg (Guinea pig)	
Derman		500 mg/kg (rabbit)	
Inhalative	LC50/4 h	7.1 mg/l (rat)	
	6-7 Organophosph		
Oral	LD50	>2,000 mg/kg (rat)	
orui	LC50 Fish	>0.09 mg/l (Fish) (Toxicity to fish)	
Dermal	LD50	>2,000 mg/kg (rat)	
	hlorhexidine Diac		
Oral	LD50	2,000 mg/kg (mouse)	
0.40		1,180 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rabbit)	
	Butylated Hydroxy		
Oral	LD50	10,700 mg/kg (Guinea pig)	
		1,040 mg/kg (mouse)	
		890 mg/kg (rat)	
	LC50 Fish	5.3 mg/l (Fish)	
Dermal	LD50	>2,000 mg/kg (rat)	
Skin corra Causes sev Serious ey Causes sev Respirator May cause CMR effed		n tion eaction. mutagenicity and toxicity for reproduction)	
Germ cell Carcinoge Reproduct STOT-sing	mutagenicity Base enicity Based on av tive toxicity Based gle exposure	ed on available data, the classification criteria are not met. vailable data, the classification criteria are not met. on available data, the classification criteria are not met. vion. May cause drowsiness or dizziness.	
		sed on available data, the classification criteria are not met.	

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A	
Aquatic toxicity:	
64-17-5 Ethyl Alcohol	
Algae Toxicity	1,000 mg/l (Algae)
868-77-9 2-Hydroxyethyl Mo	· · · · · · · · · · · · · · · · · · ·
EC50	345 mg/l (Algae)
79-41-4 Methacrylic Acid	
EC50	<180 mg/kg (daphnia) (Toxicity to aquatic invertebrates)
EC50	45 mg/l (Algae) (Toxicity to algae)
162881-26-7 Organophosph	
EC50 (static)	>1.175 mg/kg (daphnia) (Toxicity to aquatic invertebrates)
Aqua toxicity	≥0.008 mg/l (daphnia) (Daphnia Magna Reproduction Test)
	tatic) >0.26 mg/l (Plant) (Toxicity to algae)
128-37-0 Butylated Hydroxy	vtoluene
Behaviour in environmental Bioaccumulative potential N Mobility in soil No further re Ecotoxical effects:	0.48 mg/l (daphnia) (Toxicity to aquatic invertebrates) ty No further relevant information available. I systems: No further relevant information available. elevant information available.
Persistence and degradabilit Behaviour in environmental Bioaccumulative potential N Mobility in soil No further re Ecotoxical effects: Remark: Harmful to fish Additional ecological inform General notes: Water hazard class 1 (Germa Do not allow undiluted produ Must not reach sewage water Harmful to aquatic organism Results of PBT and vPvB as PBT: Not applicable. vPvB: Not applicable.	ty No further relevant information available. I systems: No further relevant information available. Pelevant information available. In ation: The function of the system of the system of the system of the system. The system of the system of the system of the system. The system of the system of the system of the system. The system of the system of the system of the system. The system of the system of the system of the system. The system of the system of the system of the system. The system of the system of the system of the system. The system of the system of the system of the system. The system of the system of the system of the system of the system. The system of the system. The system of the
Persistence and degradabilit Behaviour in environmental Bioaccumulative potential N Mobility in soil No further re Ecotoxical effects: Remark: Harmful to fish Additional ecological inform General notes: Water hazard class 1 (Germa Do not allow undiluted produ Must not reach sewage water Harmful to aquatic organism Results of PBT and vPvB as PBT: Not applicable. vPvB: Not applicable.	ty No further relevant information available. I systems: No further relevant information available. elevant information available. mation: an Regulation) (Self-assessment): slightly hazardous for water uct or large quantities of it to reach ground water, water course or sewage system. r or drainage ditch undiluted or unneutralised. Seessment ther relevant information available.

HP13 Sensitising

Corrosive

HP8

HP14 Ecotoxic

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Trade name: Peak[™] Universal Bond

Uncleaned packaging:
 Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN2924
UN proper shipping name ADR IMDG, IATA	2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Eth Alcohol, METHACRYLIC ACID, STABILIZED) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Eth
	Alcohol, METHACRYLIC ACID, STABILIZED)
Transport hazard class(es)	
ADR	
Class	3 Flammable liquids. 3+8
Label IMDG	370
Class Label	3 Flammable liquids. 3/8
IATA	5/0
Class Label	3 Flammable liquids. 3 (8)
Packing group ADR, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler): EMS Number:	38 F-E,S-C
Segregation groups	Acids
Stowage Category	
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex L and the IBC Code	I of Marpol Not applicable.

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Transport/Additional information:	
ADR	
· Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E
·IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.
	(ETHYL ALCOHOL METHACRYLIC ACID, STABILIZED
	3 (8), III

15 Regulatory information

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

- · Directive 2012/18/EU
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · Chemical safety assessment:

Device is biocompatible when used as directed by dental professionals per ISO 10993-1

16 Other information

This information is based on our present knowledge. However, this 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.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

• Department issuing SDS: Regulatory Affairs

• Contact: Customer Service

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· Abbreviations and acronyms:
ADR: Accord européen sur le transport 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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam, Liq. 2: Flammable liquids – Category 2
Flam, Lig. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox, 3: Acute toxicity – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eve Irrit, 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
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 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4
Ozone 1: Hazardous to the ozone layer – Category 1
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