US

Safety Data Sheet acc. to OSHA HCS



Printing date 04/09/2025

Reviewed on 04/09/2025

- **1** Identification
- · Product identifier
- Trade name: PeakTM Universal Bond
- · Article number: SDS 206-001.14R01, 71057
- · 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@ultradent.com
- Information department: Customer Service
- Emergency telephone number: CHEMTREC (NORTH AMERICA) : +1 (800) 424-9300 (INTERNATIONAL) : +(703) 527-3887

2 Hazard(s) identification

· Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 3	H226 Flammable liquid and vapor.
GHS08 Health hazard	
Toxic to Reproduction 1B	H360 May damage fertility or the unborn child.
GHS05 Corrosion	
Skin Corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
GHS07	
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Specific Target Organ Toxicity - Single Exposure	3 H335 May cause respiratory irritation.
 Label elements GHS label elements Void Hazard pictograms GHS02, GHS05, GHS07, GH Signal word Danger 	S08
• Health Hazard-determining components of label Mathaemylic Acid	ing:
Methacrylic Acid	(Contd. on page 2)

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

	(Contd. of page 1)
2-Hydroxyethyl N	<i>Methacrylate</i>
Ethyl-4-Dimethyl	lamino Benzoate
Trade Secret	
Organophosphin	
• Hazard statemen	
	e liquid and vapor.
	ere skin burns and eye damage.
	an allergic skin reaction.
	ge fertility or the unborn child.
	respiratory irritation.
· Precautionary st	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dusts or mists.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
	31 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P301+P3.	53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3.	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification sys	
· NFPA ratings (se	
He	alth = 3
	re=3
	activity = 0
	-
· HMIS-ratings (s	
HEALTH *3 H	Jealth = *3

HEALTH*3Health = *3FIRE3Fire = 3REACTIVITY0

(Contd. on page 3)

US

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

(Contd. of page 2)

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
-5 Ethyl Alcohol >10-		
77-9 2-Hydroxyethyl Methacrylate >10-5		
-78-0 Glycerol Dimethacrylate >10-<		
Methacrylic Acid	≥5-≤10%	
Trade Secret	≥1-<5%	
Ethyl-4-Dimethylamino Benzoate	1-10%	
Organophosphine Oxide	≥0.1-<1%	
	Ethyl Alcohol 2-Hydroxyethyl Methacrylate	

· Additional information:

The specific chemical identity of composition is being withheld as a trade secret. The specific chemical identity is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of paragraph §1910.1200.

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 copious amounts of water and provide fresh air. Immediately call a doctor.
- 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 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Foam, dry chemical, carbon dioxide
- · 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.

(Contd. on page 4)

⁻ US

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

	(Contd. of page 3)
• Environmental precautions:	
Dilute with plenty of water.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing agent.	
Dispose contaminated material as waste according to section 13.	
Ensure adequate ventilation.	
· Reference to other sections	
See Section 7 for information on safe handling.	
See Section 8 for information on personal protection equipment.	

See Section 13 for disposal information.

7 Handling and storage

· Handling:

- Precautions for safe handling Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · 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 receptacle tightly sealed.
- · Specific end use(s) Professional Dental Adhesive

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
- Components with limit values that require monitoring at the workplace:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
- At this time, the other constituents have no known exposure limits.

64-17-5 Ethyl Alcohol

- PEL Long-term value: 1900 mg/m³, 1000 ppm
- REL Long-term value: 1900 mg/m³, 1000 ppm
- STEL Short-term value: 1000 mg/m³
- TLV Short-term value: 1000 ppm
 - A3
- *TWA* Short-term value: 1900 mg/m³

(Contd. on page 5)

[–] US

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

79-41-4 Methacrylic Acid

REL Long-term value: 70 mg/m³, 20 ppm Skin

TLV Long-term value: 20 ppm

• Additional information: The lists that were valid during the creation 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. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• 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 is based on consideration of the penetration times, rates of diffusion and the degradation

· 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 chemical properties · General Information			
· Appearance:			
Form:	Liquid		
Color:	Light yellow		
Odor:	Acrylic		

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

	(Contd. of page
Odor threshold:	Not determined.
pH-value at 20 °C:	2.4 (in a 1:5 water ratio) Not applicable in standard form.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 60 °C
· Flash point:	24 °C
· Flammability:	Flammable.
· Auto igniting:	425 °C
• Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
· Explosion limits: Lower: Upper:	3.5 Vol % 15 Vol %
· Vapor pressure at 20 °C: · Vapor pressure at 50 °C:	59 hPa 280 hPa
· Density at 20 °C: · Relative density · Vapor density · Evaporation rate	1.1 g/cm ³ Not determined Not determined. Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined
• 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.

(Contd. on page 7)

US

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: Peak[™] Universal Bond

(Contd. of page 6)

Acute toxi LD/LC50	•	evant for classification:
	te Toxicity Estima	
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)
		3,400 mg/kg (mouse)
		7,060 mg/kg (rat)
	LC50 Fish	>10,000 mg/l (Fish)
Inhalative	LC50/4 h	39 mg/l (mouse)
		20,000 mg/l (rat)
868-77-9	2-Hydroxyethyl M	ethacrylate
Oral	LD50	3,275 mg/kg (mouse)
		>5,000 mg/kg (rat)
	LC50 Fish	>100 mg/l (Fish)
Dermal	LD50	>3,000 mg/kg (rabbit)
	LC50(Daphnia m	agna) 24.1 mg/l (daphnia)
79-41-4 M	ethacrylic Acid	
Oral	LD50	1,250 mg/kg (mouse)
		1,060 mg/kg (rat)
		1,200 mg/kg (rabbit)
	LC50 Fish	86 mg/l (Fish)
Dermal	LD50	1,000 mg/kg (guinea pig)
		500 mg/kg (rabbit)
Inhalative	LC50/4 h	7.1 mg/l (rat)
Organoph	osphine Oxide	· · · ·
Oral	LD50	>2,000 mg/kg (rat)
	LC50 Fish	>0.09 mg/l (Fish) (Toxicity to fish)
Dermal	LD50	>2,000 mg/kg (rat)
on the skin on the eye Strong cau Strong irru Sensitizati Additional	: istic effect. itant with the dang on: Sensitization p I toxicological inf e	ffect on skin and mucous membranes. er of severe eye injury. possible through skin contact. p rmation: ving dangers according to internally approved calculation methods for preparation

(Contd. on page 8)

US -

3

Safety Data Sheet acc. to OSHA HCS

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

(Contd. of page 7) Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

128-37-0 Butylated Hydroxytoluene

·NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity:

64-17-5 Ethyl Alcohol

or ir 5 Emyr meener			
Algae Toxicity	1,000 mg/l (Algae)		
868-77-9 2-Hydroxyethyl	868-77-9 2-Hydroxyethyl Methacrylate		
EC50	345 mg/kg (Algae)		
79-41-4 Methacrylic Acid	79-41-4 Methacrylic Acid		
EC50	17,000 mg/kg (Algae)		
	<180 mg/kg (daphnia) (Toxicity to aquatic invertebrates)		
Organophosphine Oxide	Organophosphine Oxide		
EC50 (static)	>1.175 mg/kg (daphnia) (Toxicity to aquatic invertebrates)		
Aqua toxicity	≥0.008 mg/l (daphnia) (Daphnia Magna Reproduction Test)		
Toxicity to Aquatic Plants	Toxicity to Aquatic Plants (static) >0.26 mg/l (Plant) (Toxicity to algae)		

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

· Bioaccumulative potential No further relevant information available.

• *Mobility in soil* No further relevant information available.

• Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Dispose of contents/container in accordance with international, federal, state, and local regulations.

(Contd. on page 9)

US

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

(Contd. of page 8)

Uncleaned packagings:
 Recommendation: Disposal must be made according to official regulations.
 Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, IMDG, IATA	UN2924
UN proper shipping name	
DOT	Flammable liquids, corrosive, n.o.s.
IMDG, IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHACRYLA ACID, STABILIZED, Ethyl Alcohol)
Transport hazard class(es)	
DOT	
RAMABLE LOOP	
Class	3 Flammable liquids
Label	3, 8
IMDG	
Class Label	3 Flammable liquids 3/8
IATA	
Class Label	3 Flammable liquids 3 (8)
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not Applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
EMS Number:	F-E,S-C
Stowage Category Stowage Code	A SW2 Clear of living quarters.
Transport in bulk according to Annex II of	5 61
MARPOL73/78 and the IBC Code	Not Applicable.

Printing date 04/09/2025

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

	(Contd. of page
• Transport/Additional information:	
DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
·IMDG	
· 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
UN "Model Regulation":	UN 2924 FLAMMABLE LIQUIDS, CORROSIVE, N.O. (METHACRYLIC ACID, STABILIZED, ETHYL ALCOHOL), 3 (8 III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. • Sara

Sura				
Section 355 (extremely hazardous substances):				
Trade Secret				
· Section 313	(Specific toxic chemical listings):			
Trade Secre	t			
· TSCA (Toxi	ic Substances Control Act):			
64-17-5	Ethyl Alcohol	ACTIVE		
868-77-9	2-Hydroxyethyl Methacrylate	ACTIVE		
1830-78-0	Glycerol Dimethacrylate	ACTIVE		
79-41-4	Methacrylic Acid	ACTIVE		
	Trade Secret	ACTIVE		
10287-53-3	Ethyl-4-Dimethylamino Benzoate	ACTIVE		
	Organophosphine Oxide	ACTIVE		
· Hazardous 2	Air Pollutants			
None of the ingredients is listed.				
· Proposition				
· Chemicals k	known to cause cancer:			
None of the ingredients is listed.				
· Chemicals k	known to cause reproductive toxicity for females:			
None of the	ingredients is listed.			
· Chemicals k	known to cause reproductive toxicity for males:			
None of the ingredients is listed.				

· Chemicals known to cause developmental toxicity:

64-17-5 Ethyl Alcohol

(Contd. on page 11)

⁻ US

Printing date 04/09/2025

Reviewed on 04/09/2025

Trade name: PeakTM Universal Bond

(Contd. of page 10)

A3

A4

A4

US

·	Carcinog	enic	categories
	Curcinog	emic	culegonies

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· ACGIH Carcinogenicity (American Conference of Governmental Industrial Hygienists)

64-17-5 Ethyl Alcohol

Trade Secret 128-37-0 Butylated Hydroxytoluene

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· 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.

· Department issuing SDS: Environmental, Health, and Safety

- Contact: Customer Service
- · Date of preparation / last revision 04/09/2025 / -
- · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1 Toxic to Reproduction 1B: Reproductive toxicity - Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 * Data compared to the previous version altered.