

**UNI-Q Bond**

## 1. Chemical Product and Company Identification

Product Name: **UNI-Q BOND**

Description: Universal Bonding Agent (8th Generation).

Restrictions on use: For use only by dental professionals.

Manufacturer: **B.J.M. Laboratories Ltd.**

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## 2. Hazards Identification



Xi, Irritant

F, Highly Flammable



C, Corrosive



N, Environmental Hazard



**Acute Health Hazards:** May cause eye, respiratory and skin irritation in high concentrations.

**Chronic Health Hazards:** Material is not known to cause significant health problems.

**Signs and Symptoms of Exposure:** High concentrations can cause eye and respiratory irritation.

Prolonged skin exposure can cause dryness.

**Primary routes of exposure:** inhalation, skin contact, eye contact

**Carcinogenicity:** NTP – no, OSHA – no, IARC – no.

### 3. Composition / Information on Ingredients

Hazardous Ingredients	% by Wt	CAS #	Hazard Identification & Risk Phrases
2-Hydroxyethylmethacrylate	<20%*	868-77-9	Xi, H315, 317, 319
Urethane dimethacrylate	<55%*	72869-86-4	Xi, H317, H411
Ethanol	<20%*	64-17-5	F, H225, H319
10-methacryloyldodecylphosphonate	<5%*	85590-00-7	Xi, H315, H319, H335
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphin oxide	<1%*	162881-26-7	Xi, H317, H413
Adhesion promoter	<15%*	85724-39-6, 1384855-91-7	Xi, H317, H319, H412
Inhibitor	<1%*	128-37-0	Xi, H400, H410
<b>Non-Hazardous Ingredients</b>			
Camphorquinone	<1%*	10337-78-1	N/A
EDB	<1%*	10287-53-3	N/A
Silane	<1%*	2530-85-0	N/A
Water	<5%*	7732-18-5	N/A
Rx filler	<1%*	13760-80-0	N/A

\* The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

- ✓ Additional information: For the wording of the listed risk phrases refer to section 16.

### 4. First Aid Measures

**In case of inhalation:** If irritation occurs, take victim to open air. If breathing difficulty persists, consult a physician.

**In case of skin contact:** Wash with soap and water.

**In case of eye contact:** Flush with large quantities of water for 15 minutes. Consult a physician.

**In case of ingestion:** Consult a physician.

### 5. Fire-Fighting Measures

**Flash Point:** 30.5°C (Ethanol solution)

**Extinguishing Media:** Carbon dioxide, water spray, dry chemical

**Special Fire Fighting Procedures:** Avoid a direct jet of water.

**Unusual Fire and Explosion Hazards:** None

### 6. Accidental Release Measures

**Environmental Precautions:** Avoid seepage into sewers and water supplies.

**Clean-Up Procedure:** Contain spill and pick up material with a suitable absorbent material. Place absorbent into a container for later disposal. Clean spill area with detergent and water.

## 7. Handling and Storage

**Handling:** No special measures necessary if handled according to instructions.

**Storage:** Keep container tightly closed when not in use. Store in a cool, dry location. Keep material in original packaging.

## 8. Exposure Controls / Personal Protection

**Exposure Controls:** Use only in well-ventilated areas.

**Respiratory Protection:** Avoid inhalation of vapors. No special protection under normal use.

**Hand and Skin Protection:** Avoid unnecessary skin contact. Wear latex gloves when handling.

**Eye Protection:** Wear safety goggles or safety glasses with side shields when handling.

**Hygiene Measures:** Remove spilled material from skin and clothing. Do not eat or drink when handling this material.

## 9. Physical and Chemical Properties

**Appearance:** Light yellow liquid

**Odor:** Specific odor

**Boiling Point/Range:**  $\leq 78^{\circ}\text{C}$

**Flash Point:**  $30.5^{\circ}\text{C}$  (Ethanol solution)

**Evaporation Rate** (Water = 1): N/A

**Vapor Density** (Air = 1): N/A

**Solubility in Water:** Insoluble

## 10. Stability and Reactivity

**Stability:** This material is stable.

**Hazardous Reactions:** None if handled according to directions

**Hazardous Polymerization:** May occur.

**Conditions to Avoid:** Heat, UV light and contamination.

**Incompatibility:** Free radicals, reducing agents, heavy metal ions

**Hazardous Decomposition Products:** Carbon dioxide, water, carbon monoxide, acrylic decomposition products, depending on conditions of heating and burning.

## 11. Toxicological Information

**Acute oral toxicity:**  $\text{LD}_{50}$  (rat)  $> 5000\text{mg/KG}$

**Irritation of Skin:** dryness and irritation possible upon prolonged exposure

**Allergic Effects:** Methacrylate sensitive individuals may exhibit an allergic reaction.

## 12. Ecological Information

Do not discharge into sewers or water supplies.

**Environmental persistence and degradability:** no data available

**Ecotoxicity:** no data available

## 13. Disposal Considerations:

May be disposed of in landfill or incinerator in accordance with local, state and federal regulations.

## 14. Transport Information:

14.1 Transport at land      ADR

RID

	UN Number	Kemler Number
	Packing Group	
	Proper shipping name	
14.2 Transport at sea	ADNR	IMDG
	UN Number	
	EMS	MFAG
	Packing Group	
	Proper shipping name	
14.3 Air transport	ICAO / IATA-DGR	
	UN Number	
	Proper shipping name	
	Subsidiary Risk	
	Labels	
	Packing Group	

**U.S. DOT Shipping Name:** Not Regulated

**U.S. DOT Hazard Class:** None

**U.N./N.A. Number:** None

**U.S. DOT Packing Group:** None

**Other:** Not considered hazardous cargo

## 15. Regulatory Information:

This product requires classification according to the criteria of EC.

The product is a medical device according to the Council Directive 93/42/EEC and EU Regulation 2017/745 for Medical Devices.

15.1 UN Number

15.2 National regulations

15.3 EU number

15.4 Hazard symbols



15.5 Hazard designation

Xi: Irritant. H: Highly Flammable. Contains Ethyl Alcohol.

15.6 Risk phrases

H: 225, 315, 317, 319, 335, 400, 410, 411, 412, 413

225 Highly flammable liquid and vapor.

315 Causes skin irritation.

317 May cause an allergic skin reaction.

319 Causes serious eye irritation.

335 Specific target organ toxicity, single exposure;  
Respiratory system.

400 Very toxic to aquatic life.

410 Very toxic to aquatic life with long lasting effects.

411 Chronic aquatic toxicity.

412 Harmful to aquatic life with long lasting effects.

413 May cause long lasting harmful effects to aquatic life.

## 15.7 Safety phrases

P: 102, 403, 210, 260, 305+351+338, 303+361+353, 262, 280  
102 Keep out of the reach of children.  
403 Keep container in a well-ventilated place.  
210 Keep away from sources of ignition - No smoking.  
260 Do not breathe vapor.  
305+351+338 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
303+361+353 After contact with skin, wash immediately with plenty of water and soap.  
262 Avoid contact with skin and eyes.  
280 Wear suitable gloves and eye/face protection.

**U.S.-O.S.H.A. Status:** This material is not hazardous under the criteria of the U.S. Federal Hazard Communication Standard.

## 16. Other Information

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

### Relevant H-phrases

225 Highly flammable liquid and vapor.  
315 Causes skin irritation.  
317 May cause an allergic skin reaction.  
319 Causes serious eye irritation.  
335 Specific target organ toxicity, single exposure; Respiratory system.  
400 Very toxic to aquatic life.  
410 Very toxic to aquatic life with long lasting effects.  
411 Chronic aquatic toxicity.  
412 Harmful to aquatic life with long lasting effects.  
413 May cause long lasting harmful effects to aquatic life.

**Xi** Irritant



**F** Highly flammable



**C** Corrosive



**N** Environmental Hazard



Material should be maintained in original containers. Empty containers should not be re-used.

### ANSI/NFPA 704 Data:

Fire = 1

Health = 0

Reactivity = 0

Specific Hazard = None

Revision **1.1** *EU acc. to ISO 11014, REACH*

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This information is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, or the results to be obtained from use thereof. In no event will the manufacturer or distributor be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon this information. General properties described herein are to be regarded as guides and are not guaranteed for all samples.

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