

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product Name** : **Quadrant Uni-1-Bond**  
**Product description** : Ethanol solution. Contains 2-Hydroxyethyl methacrylate.  
**Supplier** : Cavex Holland  
 Harmenjansweg 19-21  
 P.O.Box 852  
 2003 RW Haarlem (Holland)  
 Phone +31 23 530 77 00 Fax +31 23 535 64 82  
 Email: Dental@cavex.nl Website: www.cavex.nl

**Emergency Telephone Number** : Call local Poison Control Center for assistance.

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Information on Hazardous Ingredients**

Chemical Name	CAS Number	%	EC Number	Symbol	R-Phrases
4-methacryloxyethyl trimellitic anhydride	70293-55-9	0-5	F; R11 Xi; R36/37/38	F, Xi	R11, R36/37/38
Poly(methacrylic-oligo-acrylic acid) 2-Hydroxyethyl Methacrylate stabelized.	868-77-9	5-10 10-25	Xi; R36 Xi; R36/38 R43	Xi Xi	R36 R36/38, R43

Occupational Exposure Limit(s), if available, are listed in Section 8

**3. HAZARDS IDENTIFICATION**

**Physical/Chemical Hazards** : Flammable.  
**Human Health Hazards** : Irritating to eyes.  
 May cause sensitization by skin contact.  
**Environmental Hazards** : Not applicable.

**4. FIRST AID MEASURES****First Aid Measures**

**Inhalation** : Not applicable.  
**Ingestion** : Seek medical attention.  
**Skin Contact** : Wash contaminated skin with soap and water. Cover the irritated skin with an emollient.  
**Eye Contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Obtain medical attention.

**5. FIRE-FIGHTING MEASURES****Extinguishing Media**

**Suitable / Not Suitable** : Use extinguishing media suitable for surrounding materials.  
**Special Fire-Fighting Procedures** : No special measures required.  
**Unusual Fire/Explosion Hazards** : None.  
**Hazardous thermal (de)composition Products** : These products are carbon oxides (CO, CO<sub>2</sub>).  
**Protection of Fire-Fighters** : No special protection is required.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** : Safety glasses. Lab coat. Gloves. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with appropriate particulate dust filters. (as filter A)  
**Environmental Precautions and Cleanup Methods** : Dilute with plenty of water. Absorb with liquid-binding material (sand, diatomite, universal binders), or use a spill kit.

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## 7. HANDLING AND STORAGE

- Handling** : Keep away from sources of ignition.
- Storage** : Store in a dry, cool and well-ventilated area.
- Packaging Materials**
- Suitable / Not Suitable** : Use original container.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls** : Manipulate in a well-ventilated area.
- Hygiene Measures** : Not applicable.
- Occupational Exposure Limits**

<u>Ingredient Name</u>	<u>TLV/PEL</u>
TWA (8 hours) 2-Hydroxyethyl Methacrylate 0.24 mg/m3	

### Personal Protective Equipment

- Respiratory System** : No special protection is required.
- Skin and Body** : Lab coat.
- Hands** : Gloves.
- Eyes** : Safety glasses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical State and Appearance** : Liquid.
- Color** : Yellowish.
- Odour** : Characteristic.
- Boiling Point** : 78°C (172.4°F)
- Melting Point** : Not applicable.
- Specific gravity** : Not established
- Vapour Density** : Not available.
- Vapour Pressure** : Vapour pressure at 20°C: 57 hPa (Ethanol)
- Solubility** : Easily soluble in hot water, methanol, acetone.  
Partially soluble in cold water.
- Flammability** : Highly flammable in presence of open flames, sparks and static discharge.  
Flammable in presence of heat.

## 10. STABILITY AND REACTIVITY

- Stability** : The product is stable.
- Conditions to Avoid / Materials to Avoid** : Reactive with oxidizing agents (2-Hydroxyethyl Methacrylate stabilized.)
- Hazardous Reactions** : Slightly reactive to reactive with oxidizing agents.
- Hazardous Decomposition Products** : These products are carbon oxides (CO, CO2).

## 11. TOXICOLOGICAL INFORMATION

- Acute Data (LD<sub>50</sub>, LC<sub>50</sub>) - Toxicity to Test Animals** : Acute oral toxicity (LD50): >2000 mg/kg [Mouse]. (4-methacryloxyethyl trimellitic anhydride).  
Acute dermal toxicity (LD50): 20000 mg/kg [Rabbit]. (Ethanol).  
Acute toxicity of the gas (LC50): 20000 ppm 10 hour(s) [Rat]. (Ethanol).
- Local Effects**
- Skin Irritation** : Slightly hazardous in case of skin contact (irritant).
- Eye Irritation** : Hazardous in case of eye contact (irritant).
- Sensitization** : R43- May cause sensitization by skin contact.
- Chronic Toxicity** : There is no known effect from chronic exposure to this product.

## 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : Not available.
- Germany water class** : VCI WGK: No products were found.

### 13. DISPOSAL CONSIDERATIONS

Methods of Disposal ; Waste of Residues ; Contaminated Packaging : Type: Hazardous chemical waste.  
 Location: Netherlands  
 Classification: not available  
 Disposal.: Waste must be disposed of in accordance with federal, state and local environmental control regulations.  
 Storage: not available  
 Recycling: not available

### 14. TRANSPORT INFORMATION

**International Transport Regulations**

UN Number : 1170  
**Land - Road/Railway**  
 Proper Shipping Name : Ethanol solution (Ethanol)  
 ADR/RID Class : 3  
 ADR/RID Item Number : Not available.  
 Packing Group : III  
 Hazard Identification Number : 30  
 ADR/RID Label :



**Sea**

Proper Shipping Name : Ethanol solution (Ethanol)  
 IMDG Class : 3  
 IMDG Page Number : Not available.  
 Packing Group : III  
 IMDG Label :



Medical First Aid Guide (MFAG) : Not available.  
 Emergency Schedules (EmS) : Not available.  
 Marine pollutant : Not available.


**Air**

Proper Shipping Name : Ethanol solution (Ethanol)  
 UN/ID Number : 1170  
 IATA-DGR Class : 3  
 IATA Label :



### 15. REGULATORY INFORMATION

**EU Regulations**

Hazard Symbol(s) : 

Risk Phrases : R10- Flammable.  
 R36- Irritating to eyes.  
 R43- May cause sensitization by skin contact.

Safety Phrases : S7- Keep container tightly closed.  
 S16- Keep away from sources of ignition - No smoking.  
 S24- Avoid contact with skin.  
 S37- Wear suitable gloves.  
 S60- This material and its container must be disposed of as hazardous waste.

Contains : - 2-Hydroxyethyl Methacrylate stabilized.

**National Regulations**

Not available.

## 16. OTHER INFORMATION

### HISTORY

Date of Printing : 3-9-2002.

Date of Issue : 3-9-2002.

Version : 1

### Notice to Reader

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