

**Material Safety data Sheet**

(REACH Regulation No. 1907/2006 and CLP Regulation No. 1272/2008)

**1. Chemical Product and Company Identification****1.1 Product identifier**

Product name: **HBond**  
Type of product: Dental adhesive system  
Product No: B-5, BU-50

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

Self etching, light-cure universal adhesive system

**1.3 Details of the supplier of the safety data sheet**

Name: G-PHARMA  
Address: 35, avenue du Gros Chêne - ZI des Bellevues BP 50072 Herblay  
95612 Cergy-Pontoise Cedex France  
Email: elsodent@elsodent.com  
Phone: + 33 (0)1 30 37 75 75

**1.4 Emergency telephone number**

Call ORFILA: + 33 (0)1 45 42 59 59

**2. Hazards Identification**

The mixture meets the classification criteria of Regulation No 1272/2008 amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation No 1907/2006/EC (CLP Regulation). The mixture requires a safety data sheet in accordance with the requirements.

**2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)**

Liq. inflam. 2:	H225	Irrit. Cut. 2:	H315;
Irrit oc. 2:	H319	Sens cut. 1:	H317
STOT SE 3:	H335		

**2.1.2 Classification according to Directive 67/548 / EEC**

F : R11, Xi: R36, R37, R38, R43: Sens. cut.

**2.1.3 Additional Information**

The full wording of the hazard classes and categories, hazard statements H and R phrases is mentioned in section 16

**2.2 Label elements**

Labeling in accordance with Regulation (EC) No 1272/2008 (CLP)

Pictogram SGH02 SGH07

Signal word

Attention

Hazard statement**H317:** May cause skin allergy**H225:** Highly flammable liquid and vapor.**H315, H319, and H335:** Causes skin irritation, severe eye irritation and may irritate the respiratory tract.Precautionary advice**P260:** Do not breathe dust / fume / gas / mist / vapors / spray,**P271:** Use only outdoors or in a well-ventilated area**P280:** Wear protective gloves / protective clothing / equipment, eye / face protection.**P314:** Consult a physician if you feel unwell.Additional information on hazards

Not Applicable

**2.3 Other hazards**

According to the criteria of the REACH decree, this mixture contains no substance of PBT or vPvP.

### 3. Composition/Information on Ingredients

#### 3.1 Substances/mixtures

EC Designation: Not Applicable  
Classification according to Directive 93/42 / EEC: Class IIa

#### 3.2 General information

Index CE CAS	Chemical name	% mass	Classification according to Directive 67/548 / EEC (DPD)	Classification according to Regulation (EC) No 1272/2008 (CLP)	Generic threshold value
Index : 607-134-00-4 CE : N/A CAS : N/A	Methacrylate resins	20-30	Xi : R36/37/38	H315: irrit. Cut 2 H319: Irrit. Oc. 2 H335: STOT SE 3	≥ 1 %
Index : 603-002-00-5 CE : 200-578-6 CAS : 64-17-5	Ethanol	40-60	F : R11	H225: Liq. Inflam. 2	≥ 1 %

Note: The full text of H statements and R phrases is listed in section 16.

### 4. First Aid Measures

#### 4.1 Description of first aid measures

General information: Consult a physician if symptoms appear which may be caused by the product.  
Inhalation: Fresh air  
Ingestion: Get medical advice / attention  
Skin contact: Wash with soap and water.  
Eye contact: Rinse eyes for several minutes under running water and consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

Not applicable

#### 4.3 Indication of any immediate medical attention and special treatment needed:

For the possibility of consulting a physician, refer to section 4.1.

### 5. Fire Fighting Measures

#### 5.1 Extinguishing media

CO2, Powder, Water spray  
Use the proper method and means to control the fire.

#### 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

#### 5.3 Tips for firefighters

Wear self-contained breathing apparatus

### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors / aerosols.  
Avoid contact with the substance.  
Provide fresh air in enclosed spaces.

#### 6.2 Environmental precautions:

Do not allow to enter water / groundwater drains / surface.

#### 6.3 Methods and materials for containment and cleaning up

Absorb with a liquid binder.  
Clean contaminated area.

#### 6.4 References to other sections

Refer to Section 8 for Personal Protection  
Refer to Section 13 for disposal conditions

## 7. Handling and Storage

### 7.1 Precautions for safe handling

This product is for dental professionals only.  
Use according to good professional dental practice.  
Observe precautions usually used when handling chemicals.

#### Information on fire and explosion protection:

Keep away from heat and fire.  
Arrange to avoid electrostatic charge.

### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a dry place at a storage temperature <25 ° C.  
Keep well closed.

Storage and packaging requirements:                      Keep only in the original container.  
Store away from foodstuffs.

### 7.3 Specific end uses:

No important information available.

## 8. Exposure Control / Personal Protection

### 8.1 Parameters of control

Components with limit values to monitor in the workspace:

No CAS	Name	Technique	Value in mg/m3 (ppm)
64-17-5	Ethanol	TRGS900	500 ou 960

### 8.2 Equipment

Respiratory Protection & Ventilation:

Necessary, when aerosols.  
Not required under normal conditions of use.

Personal protective equipment:

Precautionary measures are those normally observed when handling chemicals.  
Keep away from food and drink.  
Avoid contact with eyes or skin.

Hand protection:                      Protective gloves.  
Eye protection:                      Safety glasses.

## 9. Physical and Chemical Properties

### 9.1 Information about physical and chemical essential properties

Physical state	Liquid
Colours	Colourless
Odor	Characteristic odor
Melting point	78°C
Fusion point	N/A
Flash point	12°C
Flammability	Yes
Ignition temperature	425°C
Solubility with organic solvents	
Relative Density	ca. 1.0 g/cm3
Apparent density	ca. 0.8 g/cm3
PH	ca. 3
Solubility in water	Yes
Lower Explosive limit	N/A
Upper explosion limit	N/A

### 9.2 Other information

None

**10. Stability and Reactivity**

<b>10.1 Reactivity</b>	Not applicable
<b>10.2 Chemical stability</b>	Stable under storage conditions
<b>10.3 Possibility of hazardous reactions</b>	None known
<b>10.4 Conditions to avoid</b>	Heat, direct sunlight and radicals.
<b>10.5 Incompatible materials</b>	Alkali metals, hybrids, strong oxidizing agents, radical initiators.
<b>10.6 Hazardous decomposition products</b>	Not applicable.

**11. Toxicological Information****11.1 Information on toxicological effects**

Acute toxicity: (ethanol), LD50 (oral, rat) = 6200 mg / kg

Primary irritation: Skin, eyes

Sensitization: No information available

Symptoms related to physicochemical and toxicological properties:

Not applicable

Deferred and immediate effects and chronic effects of short-term exposure:

Allergic reactions to methacrylate resins after long-term exposure are possible.

When the product is used and handled properly as specified, in our experience and according to the information available to us, there are no adverse effects.

**11.2 Other information**

Not applicable

**12. Ecological Information**

Use according to good working procedures, avoiding release of the product into the environment or into the soil or sewerage networks and streams.

<b>12.1 Toxicity</b>	Water hazard classification: WGK = 1 (slightly polluting substance).
<b>12.2 Persistence and degradability</b>	Not applicable
<b>12.3 Bioaccumulative potential</b>	Not applicable
<b>12.4 Mobility in soil</b>	None information
<b>12.5 Results of PBT and vPvB assessment</b>	Not applicable
<b>12.6 Other adverse effects</b>	Not applicable

**13. Disposal Considerations****13.1 Waste treatment methods**

Product: Landfill or appropriate incineration is recommended in accordance with local, state, and federal regulations.

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

**14. Transport Information**

Land transport ADR / RID and GGVS / GGVE (Germany): UN 1170 ETHANOL, 3, II

Maritime transport IMDG: 1170 ETHANOL, 3, II EMS F-E S-D

Air transport ICAO-TI and IATA-DGR: UN 1170 ETHANOL, 3, II

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

Class IIa medical device according to Directive 93/42 / EEC

**15.2 Chemical Safety Assessment**

Not applicable

## 16. Other Information

N / A: Not applicable

LD50: Lethal Dose 50

STOT SE 3: Specific target organ toxicity - single exposure hazard class 3

### Potential Hazard Symbol:

F: Flammable

Xi: irritant,

### Risk Phrases R

R11: Harmful: danger of serious damage to health by prolonged exposure through inhalation

R36: Irritating to eyes.

R37: Irritating to respiratory system.

R38: Irritating to skin.

### Hazard statements H

H225: Highly flammable liquid and vapor.

H315, cat.2: H315 Causes skin irritation.

H335: May cause respiratory irritation.

H319: Causes serious eye irritation.

### Precautionary advice (s) P

P260: Do not breathe dust / fume / gas / mist / vapors / spray,

P271: Use only outdoors or in a well-ventilated place,

P280: Wear protective gloves / protective clothing / equipment, eye / face protection,

P314: Consult a doctor if you feel unwell.

*Some of the information presented above and the resulting conclusions may be from different sources of information directly derived from the tests performed on the product itself.*

*This information, used in this document, has been obtained from sources that we believe are credible (Example: Article 9 of Regulation (EC) 1272/2008). Moreover, this information is given without any implicit or explicit guarantee as to their evaluation. Conditions or methods of use, handling, storage and disposal are beyond our control and these operations may also be performed without prior consultation with G-PHARMA.*

*For these reasons, we assume no liability and disclaim any legal liability for any damages, losses or expenses that may arise before, during or after handling, storing, using or disposing of the product.*

*If the product is used as an ingredient in the manufacture of another product, or if it is used without following the recommendations given by G-PHARMA, the information contained in this MSDS may be inadequate: The user should study the recommendations for the product and decide for itself whether the intended use context is appropriate.*