

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Trade name : TECHNOVIT-2-BOND B (80 ML/ 100 ML)  
UFI : GVPF-U1HG-YM0C-R4EF  
Product code : 66093808 / 66093935

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Use of the substance/mixture : Resin for coating materials or adhesives

##### 1.2.2. Uses advised against

Restrictions on use : No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Kulzer GmbH  
Leipziger Strasse 2  
63450 Hanau - Duitsland  
T +49 (0) 6181 9689 - 2570 (Wehrheim)  
[technik.wehrheim@kulzer-dental.com](mailto:technik.wehrheim@kulzer-dental.com)

#### 1.4. Emergency telephone number

Emergency number : +49 (0)6132 - 84463 (24 - HOUR - NUMBER)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhal.), Category 4 H332  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H332 - Harmful if inhaled.

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Precautionary statements (CLP) :

- P232 - Protect from moisture.
- P233 - Keep container tightly closed .
- P261 - Avoid breathing vapours, spray, mist.
- P264 - Wash hands thoroughly after handling.
- P280 - Wear eye protection, face protection, protective gloves.
- P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 - If skin irritation occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P342+P311 - If experiencing respiratory symptoms: Call doctor, a POISON CENTER.
- P404 - Store in a closed container.
- P501 - Dispose of Contents and container, to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Other hazards which do not result in classification : Reacts with water, generates gases or heat. This substance / mixture does not contain components considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                           | Product identifier                         | %    | Classification according to Regulation (EC) No. 1272/2008 [CLP]              |
|--------------------------------|--|------|--|
| Propane-1,2-diol, propoxylated | (CAS-No.) 25322-69-4<br>(EC-No.) 500-039-8 | > 95 | Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Call a physician immediately.

First-aid measures after skin contact : Remove contaminated clothing and shoes. Brush off loose particles from skin. Continue to rinse for at least 15 minutes. Rinse immediately with plenty of water. Use soap if available or follow washing with soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Contact ophthalmologist immediately.

First-aid measures after ingestion : Give nothing to drink (not induce vomiting.) If the victim is unconscious or very drowsy. Get immediate medical advice/attention.

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

Symptoms/effects : No characteristic features and effects known.

Symptoms/effects after inhalation : Respiratory tract irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : May cause eye irritation. Redness.

Symptoms/effects after ingestion : Irritation to throat and respiratory system.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, or water spray or regular foam.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Toxic and irritating gases are released.

### 5.3. Advice for firefighters

Protection during firefighting : All fire-fighting personnel must wear safety suits, including self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment. Do not enter fire area without proper protective equipment, including respiratory protection. Approved supplied-air respirator when exposed to vapours from heated material.  
Other information : Fire could produce a combination of irritating and toxic gases. Thermal decomposition, and/or, incineration.

## SECTION 6: Accidental release measures

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

General measures : Remove all sources of ignition. Ventilate spillage area. Dike and contain spill. Stop leak if safe to do so.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Approved supplied-air respirator when exposed to vapours from heated material.

Emergency procedures : Keep unprotected people away. Do not breathe vapours. Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Use self-contained breathing apparatus and chemically protective clothing.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Cover the spill with clay, sand, sawdust, vermiculite, fullers earth, or any suitable adsorbent material. Contain spilled material and keep further waste under control if possible.

Methods for cleaning up : Shovel into suitable and closed container for disposal. For further information refer to section 13.

### 6.4. Reference to other sections

Hazardous combustion products, See Heading 5. Wear personal protective clothing (see chapter 8). Information regarding storage, see chapter 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Provide good extraction / ventilation of the workplace.  
Precautions for safe handling : The substance must be handled in accordance with good industrial hygiene and safety procedures. These procedures prevent unnecessary exposure and contact with skin, eyes and clothing. Education and training of workers in the safe use and handling of this material is required. Provide adequate ventilation.

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Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

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

Technical measures : Provide local exhaust or general room ventilation.  
Storage conditions : Keep in a cool, well-ventilated place away from heat. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 7.3. Specific end use(s)

No additional information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Hazard control from vapor or spray mist is ideally performed by the use of engineering controls. MDI levels must be monitored. Provide good extraction / ventilation of the workplace.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Safety glasses. Gloves. Insufficient ventilation: wear respiratory protection.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

(safety glasses). Splash goggles. Chemical goggles. EN 166

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Long sleeved protective clothing. Avoid contact with skin. clothes. EN 340. EN ISO 13688

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### Hand protection:

Butyl-rubber protective gloves. Chemical resistant gloves (according to European standard EN 374 or equivalent). Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Ensure exposure is below occupational exposure limits (where available). Avoid inhalation of vapors which can be produced under some conditions such as heating the product. These vapors can be released during processing or when heated. Wear a respirator conforming to EN140 with Type A/P2 filter or better. Hazard control from vapor or spray mist is ideally performed by the use of engineering controls. General or local ventilation or isolation may prove adequate to keep airborne exposures below exposure limits.

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Do not allow to enter into surface water or drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                                |
|---|--------------------------------|
| Physical state                                  | : Liquidat                     |
| Colour  | : amber.                       |
| Odour   | : Characteristic.              |
| Odour threshold                                 | : Not available                |
| Melting point                                   | : Not available                |
| Freezing point                                  | : Not available                |
| Boiling point                                   | : Not available                |
| Flammability                                    | : Not available                |
| Explosive limits                                | : Not available                |
| Lower explosive limit (LEL)                     | : Not determined.              |
| Upper explosive limit (UEL)                     | : Not determined.              |
| Flash point                                     | : 160 – 200 °C                 |
| Auto-ignition temperature                       | : Not available                |
| Decomposition temperature                       | : Not available                |
| pH  | : Not determined.              |
| Viscosity, kinematic                            | : Not available                |
| Solubility                                      | : Water: Negligible (in water) |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                |
| Vapour pressure                                 | : Not available                |
| Vapour pressure at 50 °C                        | : Not available                |
| Density   | : 1.02 g/ml                    |
| Relative density                                | : Not available                |
| Relative vapour density at 20 °C                | : Vapours are heavier than air |
| Particle size                                   | : Not applicable               |
| Particle size distribution                      | : Not applicable               |
| Particle shape                                  | : Not applicable               |
| Particle aspect ratio                           | : Not applicable               |
| Particle aggregation state                      | : Not applicable               |
| Particle agglomeration state                    | : Not applicable               |
| Particle specific surface area                  | : Not applicable               |
| Particle dustiness                              | : Not applicable               |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

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### 9.2.2. Other safety characteristics

|  |  |
|--|--|
| Relative evaporation rate (butylacetate=1) | : Not available  |
| Note                                       | : These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guarantee analysis of any specific lot or as specifications for the product. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Avoid moisture and temperature above 32 °C and below 18 °C.

### 10.5. Incompatible materials

None under recommended storage and handling conditions (see section 7).

### 10.6. Hazardous decomposition products

Heat and fire can cause carbon dioxide, carbon monoxide, aldehydes, acids and other organic substances to form.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |   |
|-----------------------------------|---|
| Acute toxicity (oral)             | : Not classified (The experimental information related to the toxicological properties of the product itself is not available)      |
| Acute toxicity (dermal)           | : Not classified (The experimental information related to the toxicological properties of the product itself is not available)      |
| Acute toxicity (inhalation)       | : Harmful if inhaled. (The experimental information related to the toxicological properties of the product itself is not available) |
| Additional information            | : May cause eye, skin and respiratory system irritation   |
| Skin corrosion/irritation         | : Irritation to skin.<br>pH: Not determined.  |
| Serious eye damage/irritation     | : Irritating to eyes<br>pH: Not determined.   |
| Respiratory or skin sensitisation | : May cause sensitization by inhalation and skin contact  |
| Germ cell mutagenicity            | : Not classified  |
| Carcinogenicity                   | : Not classified  |
| Reproductive toxicity             | : Not classified  |
| STOT-single exposure              | : Not classified  |
| STOT-repeated exposure            | : Not classified  |
| Aspiration hazard                 | : Not classified  |

### 11.2. Information on other hazards

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : No data available.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

| TECHNOVIT-2-BOND B (80 ML/ 100 ML) |  |
|------------------------------------|--|
| Results of PBT assessment          | Mixture does not contain substance (s) classified as PBT or vPvB in concentrations above 0,1%. |

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Disposal of this packaging should at all times comply with the waste disposal legislation and any regional local authority requirements. Combustion is the recommended method. Empty containers must be handled with care due to product residue. Do not heat or cut empty containers with electric or gas torch.  
Additional information : Avoid discharge of the product as is into the environment.

### SECTION 14: Transport information

In accordance with ADR /

| ADR                              |               |
|----------------------------------|---------------|
| 14.1. UN number or ID number     | Not regulated |
| 14.2. UN proper shipping name    | Not regulated |
| 14.3. Transport hazard class(es) | Not regulated |
| 14.4. Packing group              | Not regulated |

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### 14.5. Environmental hazards

Not regulated

Not classified as dangerous in the meaning of transport regulations

### 14.6. Special precautions for user

Special transport precautions : Protect from freezing, Store at 18 °C - 30 °C

#### Overland transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| Reference code | Applicable on  | Entry title or description  |
|----------------|--|---|
| 3(b)           | TECHNOVIT-2-BOND B (80 ML/ 100 ML) ;<br>Propane-1,2-diol, propoxylated | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not determined.

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK: 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: None of the components are listed

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out



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### SECTION 16: Other information

- Data sources : Information from our suppliers, such as data from "Registered Substances Database" of the European Chemicals Agency (ECHA) is used to compile the safety data sheet. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
- Training advice : Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
- Other information : **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4           |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2 |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2         |
| H315                                | Causes skin irritation.                       |
| H319                                | Causes serious eye irritation.                |
| H332                                | Harmful if inhaled.                           |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.