

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### VITA VIONIC BOND I; VITA VIONIC BOND multiDose I

Revision date: 05.09.2024

Product code: 288

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## 1. Identification

### Product identifier

VITA VIONIC BOND I; VITA VIONIC BOND multiDose I

### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Use as laboratory reagent

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

|                         |                                       |                             |
|-------------------------|---------------------------------------|-----------------------------|
| Company name:           | VITA Zahnfabrik H.Rauter GmbH & Co.KG |                             |
| Street:                 | Spitalgasse 3                         |                             |
| Place:                  | D-79713 Bad Säckingen                 |                             |
| Post-office box:        | 1338                                  |                             |
|                         | D-79704 Bad Säckingen                 |                             |
| Telephone:              | +49(0)7761-562-0                      | Telefax: +49(0)7761-562-299 |
| E-mail:                 | info@vita-zahnfabrik.com              |                             |
| Contact person:         | regulatory affairs                    |                             |
| E-mail:                 | info@vita-zahnfabrik.com              |                             |
| Internet:               | www.vita-zahnfabrik.com               |                             |
| Responsible Department: | Regulatory Affairs                    |                             |

### Further Information

medical device

## 2. Hazard(s) identification

### Classification of the chemical

#### 29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitization: Skin Sens. 1

Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)

### Label elements

#### 29 CFR Part 1910.1200

Signal word:

Danger

Pictograms:



### Hazard statements

Highly flammable liquid and vapor

Causes skin irritation

May cause an allergic skin reaction

May cause respiratory irritation

### Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

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#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Relevant ingredients

| CAS No   | Components                           | Quantity |
|----------|--------------------------------------|----------|
| 80-62-6  | methyl methacrylate                  | 76 %     |
| 109-16-0 | triethylene glycol dimethacrylate    | 5 %      |
| 94-36-0  | dibenzoyl peroxide; benzoyl peroxide | 1.5 %    |

### 4. First-aid measures

#### Description of first aid measures

##### After inhalation

Provide fresh air. Medical treatment necessary.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

##### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

##### After ingestion

Rinse mouth immediately and drink plenty of water.

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

No information available.

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

Treat symptomatically.

### 5. Fire-fighting measures

#### Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

##### Unsuitable extinguishing media

Water.

#### Specific hazards arising from the chemical

Highly flammable. Vapors may form explosive mixtures with air.

#### Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### 6. Accidental release measures

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

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#### General advice

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

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

##### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

#### Precautions for safe handling

##### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

##### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapors may form explosive mixtures with air.

##### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

## 8. Exposure controls/personal protection

#### Control parameters

#### Exposure limits

| CAS No   | Substance                  | ppm | mg/m <sup>3</sup> | Category  | Origin |
|----------|----------------------------|-----|-------------------|-----------|--------|
| 128-37-0 | 2,6-Di-tert-butyl-p-cresol | -   | 10                | TWA (8 h) | REL    |
| 94-36-0  | Benzoyl peroxide           | -   | 5                 | TWA (8 h) | REL    |
|          |                            | -   | 5                 | TWA (8 h) | REL    |
| 80-62-6  | Methyl methacrylate        | 100 | 410               | TWA (8 h) | REL    |
|          |                            | 100 | 410               | TWA (8 h) | REL    |

#### Exposure controls

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#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye protection/face protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Butoject Butyl caoutchouc (butyl rubber)  
Breakthrough time: 60 min

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

Technical ventilation of workplace Provide adequate ventilation as well as local exhaustion at critical locations.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|   |                |
|---|----------------|
| Physical state:   | Liquid         |
| Color:  | colorless      |
| Odor:   | stinging       |
| Melting point/freezing point:                             | not determined |
| Boiling point or initial boiling point and boiling range: | 101 °C         |
| Flammability:   | not applicable |
| Lower explosion limits:                                   | 2,1 vol. %     |
| Upper explosion limits:                                   | 12,5 vol. %    |
| Flash point:  | 10 °C          |
| Auto-ignition temperature:                                | 430 °C         |
| Decomposition temperature:                                | not determined |
| pH-Value:   | not determined |
| Water solubility:   | No             |
| Solubility in other solvents                              | not determined |
| Partition coefficient n-octanol/water:                    | not determined |
| Vapor pressure:   | <=1100 hPa     |
| (at 50 °C)  |                |
| Density:  | not determined |
| Relative vapour density:                                  | not determined |

### Other information

#### Information with regard to physical hazard classes

Self-ignition temperature

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|                                     |                |
|-------------------------------------|----------------|
| Solid:                              | not applicable |
| Gas:                                | not applicable |
| Oxidizing properties                |                |
| Not oxidising.                      |                |
| <b>Other safety characteristics</b> |                |
| Evaporation rate:                   | not determined |
| Solid content:                      | 1,0 %          |

## 10. Stability and reactivity

### Reactivity

Highly flammable.

### Chemical stability

The product is stable under storage at normal ambient temperatures.

### Possibility of hazardous reactions

No known hazardous reactions.

### Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

### Incompatible materials

No information available.

### Hazardous decomposition products

No known hazardous decomposition products.

## 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No  | Components          |                   |         |        |        |
|---------|---------------------|-------------------|---------|--------|--------|
|         | Exposure route      | Dose              | Species | Source | Method |
| 80-62-6 | methyl methacrylate |                   |         |        |        |
|         | dermal              | LD50 > 5000 mg/kg |         |        |        |

#### **Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

#### **Sensitizing effects**

May cause an allergic skin reaction (methyl methacrylate; triethylene glycol dimethacrylate; dibenzoyl peroxide; benzoyl peroxide)

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

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#### Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation (methyl methacrylate)

#### Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Methyl methacrylate (CAS 80-62-6) is listed in group 3. Benzoyl peroxide (CAS 94-36-0) is listed in group 3. Butylated hydroxytoluene (BHT) (CAS 128-37-0) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## 12. Ecological information

#### Ecotoxicity

The product is not: Ecotoxic.

#### Persistence and degradability

The product has not been tested.

#### Bioaccumulative potential

The product has not been tested.

#### Mobility in soil

The product has not been tested.

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

## 13. Disposal considerations

#### Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## 14. Transport information

#### Marine transport (IMDG)

|                                    |  |
|------------------------------------|--|
| <u>UN number or ID number:</u>     | UN 1993  |
| <u>UN proper shipping name:</u>    | FLAMMABLE LIQUID, N.O.S. (methyl methacrylate) |
| <u>Transport hazard class(es):</u> | 3  |
| <u>Packing group:</u>              | II   |
| Hazard label:                      | 3  |

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Special Provisions: 274  
 Limited quantity: 1 L  
 Excepted quantity: E2  
 EmS: F-E, S-E  
 Segregation group: ammonium compounds

#### Air transport (ICAO-TI/IATA-DGR)

**UN number or ID number:** UN 1993  
**UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (methyl methacrylate)  
**Transport hazard class(es):** 3  
**Packing group:** II  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 1 L  
 Passenger LQ: Y341  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 353  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 364  
 IATA-max. quantity - Cargo: 60 L

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### Special precautions for user

Warning: Combustible liquid.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

### U.S. Regulations

#### National regulatory information

SARA Section 304 CERCLA:

Methyl methacrylate (80-62-6): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

Methyl methacrylate (80-62-6): Fire hazard, Immediate (acute) health hazard

triethylene glycol dimethacrylate (109-16-0): Immediate (acute) health hazard

Benzoyl peroxide (94-36-0): Reactive, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Methyl methacrylate (80-62-6): De minimis limit = 1.0 %, Reportable threshold = Standard

Benzoyl peroxide (94-36-0): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Methyl methacrylate (80-62-6)

#### State Regulations

##### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or

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other reproductive harm.

#### 16. Other information

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##### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

##### Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*