# Safety Data Sheet

according to WHMIS

## VITA VIONIC BOND I



## 1. Identification

**Product identifier**

VITA VIONIC BOND I

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

**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 | |
| Post-office box: | 1338<br>79704 Bad Säckingen | |
| Telephone: | +49(0)7761-562-0 | Telefax: +49(0)7761-562-299 |
| e-mail: | info@vita-zahnfabrik.com | |
| Internet: | www.vita-zahnfabrik.com | |


**Emergency telephone number:** +49-(0)761-19240

**Further Information**

medical device

## 2. Hazard identification

**Classification of the substance or mixture**

**WHMIS 2015**

Hazard categories:
Flammable liquid: 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
Hazard Statements:
Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

**Label elements**

**WHMIS 2015**

**Signal word:** Danger

**Pictograms:**

**Hazard statements**

Highly flammable liquid and vapour.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

**Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep cool.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.

**Other hazards**

No information available.

## 3. Composition/information on ingredients

**Mixtures**

**Hazardous components**

| CAS No | Chemical name | Quantity |
|---|---|---|
| 80-62-6 | methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate | 75 - < 80 % |
| 109-16-0 | triethylene glycol dimethacrylate | 1 - < 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.

**Indication of immediate medical attention and special treatment needed**

Treat symptomatically.

## 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide (CO2), Foam, Extinguishing powder.

**Unsuitable extinguishing media**

Water.

**Specific hazards arising from the hazardous product**

Highly flammable. Vapours can 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/vapours/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**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/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**

Absorb with liquid-binding material (e.g. 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: 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/fumes/vapour/spray.

**Advice on protection against fire and explosion**

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

**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.

**Advice on storage compatibility**

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

## 8. Exposure controls/Personal protection

**Control parameters**

**Exposure limits (ACGIH)**

| CAS No | Chemical name | ppm | mg/m³ | F/ml | Category | Origin |
|---|---|---|---|---|---|---|
| 94-36-0 | Benzoyl peroxide | | 5 | | TWA (8 h) | ACGIH-2016 |
| 80-62-6 | Methyl methacrylate | 50 | | | TWA (8 h) | ACGIH-2016 |
| | | 100 | | | STEL (15 min) | ACGIH-2016 |

**Exposure controls**




**Appropriate engineering controls**

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

**Protective and hygiene measures**

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.

**Eye/face protection**

Wear eye/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 (maximum wearing 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 |
| Colour: | colourless |
| Odour: | stinging |

| | Test method |
|---|---|
| pH-Value: | not determined |
| **Changes in the physical state** | |
| Melting point: | not determined |
| Initial boiling point and boiling range: | 101 °C |
| Flash point: | 10 °C |
| **Flammability** | |
| Solid: | not applicable |
| Gas: | not applicable |
| Lower explosive limits: | 2,1 vol. % |
| Upper explosive limits: | 12,5 vol. % |
| Ignition temperature: | 430 °C |
| **Auto-ignition temperature** | |
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not determined |
| **Oxidizing properties** | |
| Not oxidizing. | |
| Vapour pressure: (at 50 °C) | <=1100 hPa |
| Density: | not determined |
| Water solubility: | No |
| **Solubility in other solvents** | |
| not determined | |
| Partition coefficient: | not determined |
| Vapour density: | not determined |
| Evaporation rate: | not determined |

**Other information**

| | |
|---|---|
| Solid content: | 1,0 % |

## 10. Stability and reactivity

**Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can 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.

| CAS No | Chemical name | | | | |
|---|---|---|---|---|---|
| | Route of exposure | Dose | Species | Source | Method |
| 80-62-6 | methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate | | | | |
| | dermal | LD50 >5000 mg/kg | | | |

**Irritation and corrosivity**

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 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate; triethylene glycol dimethacrylate; dibenzoyl peroxide; benzoyl peroxide)

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

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

**STOT-single exposure**

May cause respiratory irritation. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Additional information on tests**

This 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.

**Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

## 13. Disposal considerations

**Waste treatment methods**

**Advice on disposal**

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)**

| | |
|---|---|
| **UN number:** | UN 1993 |
| **United Nations proper shipping name:** | FLAMMABLE LIQUID, N.O.S. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate) |
| **Transport hazard class(es):** | 3 |
| **Packing group:** | II |
| Hazard label: | 3 |


| | |
|---|---|
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| EmS: | F-E, S-E |

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

| | |
|---|---|
| **UN number:** | UN 1993 |
| **United Nations proper shipping name:** | FLAMMABLE LIQUID, N.O.S. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate) |
| **Transport hazard class(es):** | 3 |
| **Packing group:** | II |
| Hazard label: | 3 |


| | |
|---|---|
| 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 |

## 15. Regulatory information

**Canadian regulations**

## 16. Other information

**Further Information**

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