



# SAFETY DATA SHEET

Revision date 07-Nov-2023

Revision Number 1

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

### Product identifier

**Product Name** ALCOLIN VINYLESTER CHEMICAL ANCHOR - PART A

### Other means of identification

**Synonyms** None

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

**Recommended use** Two-component glue

**Restrictions on use** No information available

### Supplier's details

#### **Supplier**

Bostik South Africa  
1 Beverley Close  
Montague Gardens  
Cape Town  
South Africa  
7441  
Tel: +27 21 555 7400

**Non-Emergency Telephone Number**+27 21 555 7400

**E-mail address** psra.za@bostik.com

### Emergency telephone number

**Emergency Telephone** Tel: +27 21 555 7400

**Restrictions on emergency number** 8am - 5pm (Monday - Friday)

## SECTION 2: Hazards identification

### Classification of the substance or mixture

|                    |            |
|--------------------|------------|
| Skin sensitisation | Category 1 |
|--------------------|------------|

### GHS Label elements, including precautionary statements



**Signal word** Warning

#### **Hazard statements**

May cause an allergic skin reaction.

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapours/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves/clothing and eye/face protection.

**Skin**

IF ON SKIN: Wash with plenty of water and soap.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off all contaminated clothing and wash it before reuse.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Other hazards which do not result in classification**

No information available.

**SECTION 3: Composition/information on ingredients****Substance**

Not applicable

**Mixture**

| Chemical name                                     | CAS No.    | Weight-% |
|---|------------|----------|
| Quartz  | 14808-60-7 | 60 - 100 |
| Ethylene dimethacrylate                           | 97-90-5    | 10 - 30  |
| Methacrylic acid, monoester with propane-1,2-diol | 27813-02-1 | 5 - <10  |
| 1,1'-(p-tolylimino)dipropan-2-ol                  | 38668-48-3 | 0.1 - <1 |

**SECTION 4: First aid measures****Description of necessary first aid measures**

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>     | Remove to fresh air.   |
| <b>Skin contact</b>   | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.      |
| <b>Eye contact</b>    | In case of contact with substance, immediately flush eyes with running water for at least 30 minutes. Get immediate medical attention. |
| <b>Ingestion</b>      | Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice.  |

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

|                            |                           |
|----------------------------|---------------------------|
| <b>Symptoms</b>            | Itching. Rashes. Hives.   |
| <b>Effects of Exposure</b> | No information available. |

**Indication of immediate medical attention and special treatment needed, if necessary**

|                        |  |
|------------------------|--|
| <b>Note to doctors</b> | May cause sensitisation in susceptible persons. Treat symptomatically. |
|------------------------|--|

**SECTION 5: Firefighting measures**

|                                     |   |
|-------------------------------------|---|
| <b>Suitable Extinguishing Media</b> | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b>Large Fire</b>                   | CAUTION: Use of water spray when fighting fire may be inefficient.                                      |

|   |   |
|---|---|
| <b>Unsuitable extinguishing media</b>               | Do not scatter spilled material with high pressure water streams.                               |
| <b>Specific hazards arising from the chemical</b>   | Product is or contains a sensitiser. May cause sensitisation by skin contact.                   |
| <b>Hazardous combustion products</b>                | Carbon oxides.  |
| <b>Special protective actions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. |

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
|-----------------------------|--|

### Environmental precautions

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Environmental precautions</b> | No information available. |
|----------------------------------|---------------------------|

### Methods and material for containment and cleaning up

|                                |   |
|--------------------------------|---|
| <b>Methods for cleaning up</b> | Pick up and transfer to properly labelled containers. |
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so. |

## SECTION 7: Handling and storage

### Precautions for safe handling

|                                       |  |
|---------------------------------------|--|
| <b>Advice on safe handling</b>        | This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. |
| <b>General hygiene considerations</b> | Handle in accordance with good industrial hygiene and safety practice.   |

### Conditions for safe storage, including any incompatibilities

|  |   |
|--|---|
| <b>Storage Conditions</b>              | Keep away from food, drink and animal feedingstuffs. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Keep/store only in original container. |
| <b>Recommended storage temperature</b> | Keep at temperatures between 5 and 25 °C. Store at temperatures not exceeding 30 °C/ 86 °F.   |
| <b>Incompatible materials</b>          | None known based on information supplied.   |

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Chemical name        | OEL-ML   | OEL-RL |
|----------------------|--|--------|
| Quartz<br>14808-60-7 | TWA: 0.1 mg/m <sup>3</sup> respirable dust<br>Silica, crystalline<br>Carc. | -      |

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

**Hand protection** Wear suitable gloves.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

**Appearance** Paste  
**Physical state** Liquid  
**Colour** Beige  
**Odour** Characteristic  
**Odour threshold** No information available

| <u>Property</u>                                     | <u>Values</u>      | <u>Remarks • Method</u>  |
|---|--------------------|--------------------------|
| <b>pH</b>   | No data available  | Insoluble in water       |
| <b>Melting point / freezing point</b>               | No data available  | No information available |
| <b>Initial boiling point and boiling range</b>      | No data available  | No information available |
| <b>Flash point</b>                                  | No data available  | No information available |
| <b>Evaporation rate</b>                             | No data available  | No information available |
| <b>Flammability</b>                                 | No data available  | No information available |
| <b>Upper/lower flammability or explosive limits</b> |                    |                          |
| <b>Upper flammability or explosive limits</b>       | No data available  |                          |
| <b>Lower flammability or explosive limits</b>       | No data available  |                          |
| <b>Vapour pressure</b>                              | No data available  | No information available |
| <b>Relative vapour density</b>                      | No data available  | No information available |
| <b>Relative density</b>                             | 1.6 - 1.8          | No information available |
| <b>Solubility(ies)</b>                              |                    |                          |
| <b>Water solubility</b>                             | Insoluble in water | No data available        |
| <b>Solubility in Other Solvents</b>                 | No data available  | No information available |
| <b>Partition coefficient</b>                        | No data available  | No information available |
| <b>Autoignition temperature</b>                     | No data available  | No information available |
| <b>Decomposition temperature</b>                    | No data available  | No information available |
| <b>Kinematic viscosity</b>                          | No data available  | No information available |
| <b>Dynamic viscosity</b>                            | No data available  | No information available |

### Other information

**Explosive properties** No information available  
**Oxidising properties** No information available  
**Liquid Density** 1.6

**SECTION 10: Stability and reactivity**

|   |   |
|---|---|
| <b>Reactivity</b>                         | No information available.                 |
| <b>Chemical stability</b>                 | Stable under normal conditions.           |
| <b>Possibility of hazardous reactions</b> | None under normal processing.             |
| <b>Conditions to avoid</b>                | None known based on information supplied. |
| <b>Incompatible materials</b>             | None known based on information supplied. |
| <b>Hazardous decomposition products</b>   | None known based on information supplied. |

**SECTION 11: Toxicological information****Information on the likely routes of exposure****Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available.   |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available.   |
| <b>Skin contact</b> | May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available.   |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                 |                         |
|-----------------|-------------------------|
| <b>Symptoms</b> | Itching. Rashes. Hives. |
|-----------------|-------------------------|

**Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                 |
|--------------------------------------|-----------------|
| <b>ATEmix (oral)</b>                 | 5,555.60 mg/kg  |
| <b>ATEmix (dermal)</b>               | 11,846.20 mg/kg |
| <b>ATEmix (inhalation-gas)</b>       | >20000 ppm      |
| <b>ATEmix (inhalation-vapour)</b>    | >20 mg/l        |
| <b>ATEmix (inhalation-dust/mist)</b> | >5 mg/l         |

**Component Information**

| Chemical name                                     | Oral LD50  | Dermal LD50                          | Inhalation LC50 |
|---|--|--------------------------------------|-----------------|
| Quartz  | >2000 mg/kg (Rattus)                               | -                                    | -               |
| Ethylene dimethacrylate                           | >3300 mg/kg (Rattus)                               | > 2000 mg/kg ( Rat )                 | -               |
| Methacrylic acid, monoester with propane-1,2-diol | =11200 mg/kg (Rattus)                              | > 3000 mg/kg (Oryctolagus cuniculus) | -               |
| 1,1'-(p-tolylimino)dipropan-2-ol                  | LD50 >25<200 mg/kg bw (Rattus)(OECD guideline 423) | LD50 >2000 mg/kg (Rattus) OECD 402   | -               |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Chemical name | IARC    | South Africa |
|---------------|---------|--------------|
| Quartz        | Group 1 | -            |

**Legend**

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## SECTION 12: Ecological information

### Ecotoxicity

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

| Chemical name                                     | Algae/aquatic plants                                     | Fish   | Crustacea                                |
|---|--|--|--|
| Ethylene dimethacrylate                           | -  | LC50: =15.95mg/L (96h, Danio rerio)            | EC50 >=44.9 mg/l (Daphnia magna)         |
| Methacrylic acid, monoester with propane-1,2-diol | -  | LC50: =493mg/L (48h, Leuciscus idus melanotus) | LC50 > 143 mg/l Daphnia magna (OECD 202) |
| 1,1'-(p-tolylimino)dipropan-2-ol                  | EC50 (72h) = 245 mg/L (Desmodesmus subspicatus) OECD 201 | LC50 (96h) = 17 mg/L (Danio rerio)             | EC50 (48h) = 28.8 mg/L (Daphnia magna)   |

**Persistence and degradability** No information available.

### Quartz (14808-60-7)

### 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

| Method  | Exposure time | Value | Results |
|---|---------------|-------|---------|
| OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B) | 5 days        | 39%   |         |

### Bioaccumulative potential

### Component Information

| Chemical name                                     | Partition coefficient |
|---|-----------------------|
| Ethylene dimethacrylate                           | 2.4                   |
| Methacrylic acid, monoester with propane-1,2-diol | 0.97                  |
| 1,1'-(p-tolylimino)dipropan-2-ol                  | 2.1                   |

**Mobility in soil** No information available.

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### Disposal methods

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

**IMDG** Not regulated

**IATA** Not regulated

**ADR** Not regulated

**DOT** Not regulated

## SECTION 15: Regulatory information

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

#### National regulations

**South Africa - Occupational Injuries and Diseases - Chemical Agents** Not applicable

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### Europe

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

#### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

#### **2015/863/EU - RoHS**

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

## SECTION 16: Other information

**Prepared By** Product Safety & Regulatory Affairs  
**Revision date** 07-Nov-2023  
**Revision note** SDS sections updated: 1. 2. 3. 4. 7. 16.

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend **SECTION 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text**

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Revision date 07-Nov-2023

Revision Number 1

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

### Product identifier

**Product Name** ALCOLIN VINYLESTER CHEMICAL ANCHOR - PART B

### Other means of identification

**Synonyms** None

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

**Recommended use** Two-component glue: Hardener

**Restrictions on use** No information available

### Supplier's details

#### **Supplier**

Bostik South Africa  
1 Beverley Close  
Montague Gardens  
Cape Town  
South Africa  
7441  
Tel: +27 21 555 7400

**Non-Emergency Telephone Number**+27 21 555 7400

**E-mail address** psra.za@bostik.com

### Emergency telephone number

**Emergency Telephone** Tel: +27 21 555 7400

**Restrictions on emergency number** 8am - 5pm (Monday - Friday)

## SECTION 2: Hazards identification

### Classification of the substance or mixture

|                                   |            |
|-----------------------------------|------------|
| Serious eye damage/eye irritation | Category 2 |
| Skin sensitisation                | Category 1 |

### GHS Label elements, including precautionary statements



**Signal word** Warning

#### **Hazard statements**

Causes serious eye irritation.

May cause an allergic skin reaction.

#### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.  
 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wear protective gloves/clothing and eye/face protection.

#### Skin

IF ON SKIN: Wash with plenty of water and soap.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Take off all contaminated clothing and wash it before reuse.

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

#### Other hazards which do not result in classification

In use, may form flammable/explosive vapour-air mixture.

### SECTION 3: Composition/information on ingredients

#### Substance

Not applicable

#### Mixture

| Chemical name      | CAS No.    | Weight-% |
|--------------------|------------|----------|
| Quartz             | 14808-60-7 | 60 - 100 |
| Dibenzoyl peroxide | 94-36-0    | 10 - 30  |

### SECTION 4: First aid measures

#### Description of necessary first aid measures

|   |   |
|---|---|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.  |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.   |
| <b>Skin contact</b>                       | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.  |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).   |

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

|                            |   |
|----------------------------|---|
| <b>Symptoms</b>            | Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. |
| <b>Effects of Exposure</b> | No information available.   |

#### Indication of immediate medical attention and special treatment needed, if necessary

**Note to doctors** May cause sensitisation in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

|   |   |
|---|---|
| <b>Suitable Extinguishing Media</b>                 | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b>Large Fire</b>                                   | CAUTION: Use of water spray when fighting fire may be inefficient.                                      |
| <b>Unsuitable extinguishing media</b>               | Do not scatter spilled material with high pressure water streams.                                       |
| <b>Specific hazards arising from the chemical</b>   | Product is or contains a sensitiser. May cause sensitisation by skin contact.                           |
| <b>Hazardous combustion products</b>                | Carbon oxides. Hydrocarbons. Benzene. Benzoic acid. Phenyl benzoate.                                    |
| <b>Special protective actions for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.         |

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Environmental precautions

**Environmental precautions** No information available.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Pick up and transfer to properly labelled containers.

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Other information** Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### Precautions for safe handling

**Advice on safe handling** This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep away from food, drink and animal feedingstuffs. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Recommended storage temperature** Keep at temperatures between 5 and 25 °C. Store at temperatures not exceeding 30 °C/ 86 °F.

**Incompatible materials** Strong oxidising agents. Strong reducing agents.

**SECTION 8: Exposure controls/personal protection****Control parameters**

**Occupational exposure limits** As Quartz (14808-60-7) is inextricably bound in the polymer matrix, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal condition of uses

| Chemical name                 | OEL-ML   | OEL-RL                    |
|-------------------------------|--|---------------------------|
| Quartz<br>14808-60-7          | TWA: 0.1 mg/m <sup>3</sup> respirable dust<br>Silica, crystalline<br>Carc. | -                         |
| Dibenzoyl peroxide<br>94-36-0 | -  | TWA: 10 mg/m <sup>3</sup> |

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear suitable protective clothing.

**Hand protection** Wear suitable gloves.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

**Appearance** Paste  
**Physical state** Liquid  
**Colour** Black  
**Odour** Characteristic  
**Odour threshold** No information available

| <b>Property</b>                                     | <b>Values</b>              | <b>Remarks • Method</b>  |
|---|----------------------------|--------------------------|
| <b>pH</b>   | No data available          | Insoluble in water       |
| <b>Melting point / freezing point</b>               | No data available          |                          |
| <b>Initial boiling point and boiling range</b>      | No data available          |                          |
| <b>Flash point</b>                                  | No data available          |                          |
| <b>Evaporation rate</b>                             | No data available          | No information available |
| <b>Flammability</b>                                 | Not applicable for liquids |                          |
| <b>Upper/lower flammability or explosive limits</b> |                            |                          |
| <b>Upper flammability or explosive limits</b>       | No data available          |                          |
| <b>Lower flammability or explosive limits</b>       | No data available          |                          |
| <b>Vapour pressure</b>                              | No data available          |                          |
| <b>Relative vapour density</b>                      | No data available          |                          |

|                              |                          |                          |
|------------------------------|--------------------------|--------------------------|
| Relative density             | 1.5 - 1.7                |                          |
| Solubility(ies)              |                          |                          |
| Water solubility             | Insoluble in water       | No data available        |
| Solubility in Other Solvents | No data available        |                          |
| Partition coefficient        | No data available        |                          |
| Autoignition temperature     | No data available        |                          |
| Decomposition temperature    | No data available        | No information available |
| Kinematic viscosity          | No data available        |                          |
| Dynamic viscosity            | No data available        | No information available |
| <b>Other information</b>     |                          |                          |
| Explosive properties         | No information available |                          |
| Oxidising properties         | No information available |                          |
| Liquid Density               | 1.5                      |                          |

## SECTION 10: Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No information available.   |
| Chemical stability                 | Self-accelerating decomposition may occur if the specific control temperature is not maintained.              |
| Possibility of hazardous reactions | None under normal processing.   |
| Conditions to avoid                | Keep away from open flames, hot surfaces and sources of ignition. static discharge (electrostatic discharge). |
| Incompatible materials             | Strong oxidising agents. Strong reducing agents.  |
| Hazardous decomposition products   | SADT (self-accelerating decomposition temperature). @ 65 °C. May form explosive peroxides.                    |

## SECTION 11: Toxicological information

### Information on the likely routes of exposure

#### Product Information

|              |   |
|--------------|---|
| Inhalation   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.  |
| Eye contact  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.   |
| Skin contact | May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause irritation. Prolonged contact may cause redness and irritation. |
| Ingestion    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  |

### Symptoms related to the physical, chemical and toxicological characteristics

|          |  |
|----------|--|
| Symptoms | Itching. Rashes. Hives. May cause redness and tearing of the eyes. |
|----------|--|

### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                            |             |
|----------------------------|-------------|
| ATEmix (oral)              | >5000 mg/kg |
| ATEmix (dermal)            | >5000 mg/kg |
| ATEmix (inhalation-gas)    | >20000 ppm  |
| ATEmix (inhalation-vapour) | >20 mg/l    |

ATEmix (inhalation-dust/mist) &gt;5 mg/l

**Component Information**

| Chemical name      | Oral LD50                              | Dermal LD50                            | Inhalation LC50                                 |
|--------------------|--|--|---|
| Quartz             | >2000 mg/kg (Rattus)                   | -                                      | -   |
| Dibenzoyl peroxide | LD50 > 2000 mg/kg (Rattus)<br>OECD 401 | LD50 > 2000 mg/kg (Rattus)<br>OECD 402 | LC0 (4h) =24.3 mg/L (Rattus)<br>Dust (OECD 403) |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation** No information available.

Dibenzoyl peroxide (94-36-0)

| Method   | Species | Exposure route | Effective dose | Exposure time | Results      |
|--|---------|----------------|----------------|---------------|--------------|
| OECD Test No. 404:<br>Acute Dermal<br>Irritation/Corrosion |         | Dermal         |                |               | Non-irritant |

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.**Respiratory or skin sensitisation** May cause an allergic skin reaction.**Germ cell mutagenicity** No information available.**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Chemical name      | IARC    | South Africa |
|--------------------|---------|--------------|
| Quartz             | Group 1 | -            |
| Dibenzoyl peroxide | Group 3 | -            |

**Legend****IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity** No information available.

Dibenzoyl peroxide (94-36-0)

| Method   | Species | Results  |
|--|---------|--|
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat     | Based on available data, the classification criteria are not met 1000 mg/kg bw |

**STOT - single exposure** No information available.**STOT - repeated exposure** No information available.

Dibenzoyl peroxide (94-36-0)

| Method   | Species | Exposure route | Effective dose | Exposure time | Results              |
|--|---------|----------------|----------------|---------------|----------------------|
| OECD Test No. 422:<br>Combined Repeated Dose<br>Toxicity Study with the<br>Reproduction/Developme<br>ntal Toxicity Screening | Rat     | Oral           |                | 91 days       | NOAEL: 1000<br>mg/kg |

|      |  |  |  |  |  |
|------|--|--|--|--|--|
| Test |  |  |  |  |  |
|------|--|--|--|--|--|

**Aspiration hazard** No information available.

## SECTION 12: Ecological information

### Ecotoxicity

| Chemical name      | Algae/aquatic plants  | Fish   | Crustacea  |
|--------------------|---|--|--|
| Dibenzoyl peroxide | ErC50 (72h) = 0.0711 mg/l<br>(Pseudokirchneriella subcapitata) OECD 201 | LC50 (96h) = 0.0602<br>(Oncorhynchus mykiss) Semi static | EC50 (48h) = 0.11 mg/L<br>(Daphnia magna static) |

| Method  | Species                         | Endpoint type | Effective dose | Exposure time | Results        |
|---|---------------------------------|---------------|----------------|---------------|----------------|
| OECD Test No. 203: Fish, Acute Toxicity Test                                  | Fish                            | LC50          | > 100 mg/L     | 96 hours      | Not classified |
| OECD Test No. 202: Daphnia sp., Acute Immobilisation Test                     | Daphnia magna                   | EC50          | > 100 mg/L     | 48 hours      | Not classified |
| OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test | Pseudokirchneriella subcapitata | EC50          | > 100 mg/L     | 72 hours      | Not classified |
| OECD Test No. 215: Fish, Juvenile Growth Test                                 | Fish                            | NOEC          | > 100 mg/L     | 28 d          | Not classified |

**Persistence and degradability** No information available.

### Quartz (14808-60-7)

### Dibenzoyl peroxide (94-36-0)

| Method  | Exposure time | Value               | Results               |
|---|---------------|---------------------|-----------------------|
| OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)     | 28 days       | biodegradation 68%  | Data inconclusive     |
| OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C) | 21 days       | biodegradation 100% | Readily biodegradable |

### Bioaccumulative potential

### Component Information

| Chemical name      | Partition coefficient |
|--------------------|-----------------------|
| Dibenzoyl peroxide | 3.2                   |

**Mobility in soil** No information available.

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### Disposal methods

**Waste from residues/unused products** Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

**IMDG** Not regulated

|             |               |
|-------------|---------------|
| <u>IATA</u> | Not regulated |
| <u>ADR</u>  | Not regulated |
| <u>DOT</u>  | Not regulated |

## SECTION 15: Regulatory information

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

#### National regulations

##### South Africa - Occupational Injuries and Diseases - Chemical Agents

| Chemical name                | South Africa - Occupational Injuries and Diseases - Chemical Agents |
|------------------------------|---|
| Dibenzoyl peroxide - 94-36-0 | Listed  |

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### Europe

##### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

##### **2015/863/EU - RoHS**

This product does not contain Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-Ethylhexyl) phthalate (DEHP), Benzyl butyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) above the regulated limit mentioned in this regulation

## SECTION 16: Other information

|                      |  |
|----------------------|--|
| <b>Prepared By</b>   | Product Safety & Regulatory Affairs  |
| <b>Revision date</b> | 07-Nov-2023  |
| <b>Revision note</b> | SDS sections updated: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. |

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend **SECTION 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |

### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Disclaimer**

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**End of Safety Data Sheet**