

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : VariDur 200 Powder
Product code : 11-1030, 11-1034

1.2. Recommended use and restrictions on use

Recommended use : Laboratory chemicals
Restrictions on use : None known

1.3. Supplier

Buehler
41 Waukegan Rd
Lake Bluff, IL 60044
T 1-847-295-6500
custserv@buehler.com

1.4. Emergency telephone number

Emergency number : Global Access Code: 334545; Americas" +1 760 476 3962; Middle East/Africa: +1 760 476 3959; Asia Pacific +1 760 476 3960; Europe +1 760 476 3961

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

| | | |
|--|------|---|
| Skin sensitisation, Category 1 | H317 | May cause an allergic skin reaction. |
| Carcinogenicity, Category 1A | H350 | May cause cancer. |
| Specific target organ toxicity – Repeated exposure, Category 1 | H372 | Causes damage to organs through prolonged or repeated exposure. |

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA)

: Danger

Hazard statements (GHS CA)

: H317 - May cause an allergic skin reaction.
H350 - May cause cancer.
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS CA)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing should not be allowed out of the workplace.

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P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | wt% | Classification (GHS CA) |
|----------------------|--|---------------------|---------|---|
| Silica, cristobalite | Cristobalite / Cristobalite (SiO ₂) / Silica, crystalline - cristobalite / Silica, crystalline, cristobalite / Silica-crystalline, cristobalite / Cristobalite (Silica) / Silica, crystalline cristobalite / Silica - crystalline, cristobalite / Silica-crystalline cristobalite / Silica crystalline, cristobalite / Silica, crystalline-cristobalite / Silica (crystalline, cristobalite) / Silica crystalline cristobalite / Crystalline SiO ₂ , cristobalite / Crystalline silica in the form of cristobalite / Silica / Silica, crystalline (cristobalite) / Silica, crystalline / Silica crystalline | CAS-No.: 14464-46-1 | 10 – 30 | Carc. 1A, H350 STOT RE 1, H372 |
| Dibenzoyl peroxide | Benzoyl peroxide / Benzoyl superoxide / Diphenylglyoxal peroxide / Peroxide, dibenzoyl / BPO / Benzoyl Peroxide | CAS-No.: 94-36-0 | 0.1 – 1 | Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 |

Full text of hazard classes and 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.

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| | |
|---------------------------------------|--|
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |
| First-aid measures general | : IF exposed or concerned: Get medical advice/attention. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |
|-------------------------------------|--|

4.3. Immediate medical attention and special treatment, if necessary

| | |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

| | |
|------------------------------|----------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
|------------------------------|----------------------------------|

5.2. Unsuitable extinguishing media

| | |
|--------------------------------|-------------------|
| Unsuitable extinguishing media | : Not determined. |
|--------------------------------|-------------------|

5.3. Specific hazards arising from the hazardous product

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.4. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Exercise caution when fighting any chemical fire. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Do not handle until all safety precautions have been read and understood. |
|------------------|---|

6.2. Methods and materials for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | : Mechanically recover the product. Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. |
|-------------------------------|---|

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Hygiene measures : Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Dibenzoyl peroxide (94-36-0) | |
|---|----------------------|
| Canada (Alberta) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Canada (Quebec) - Occupational Exposure Limits | |
| VEMP (OEL TWA) | 5 mg/m ³ |
| Canada (British Columbia) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Canada (Manitoba) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Canada (New Brunswick) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Canada (Nova Scotia) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Canada (Nunavut) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 10 mg/m ³ |
| Canada (Northwest Territories) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 10 mg/m ³ |
| Canada (Ontario) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Canada (Prince Edward Island) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 10 mg/m ³ |
| Canada (Yukon) - Occupational Exposure Limits | |
| OEL TWA | 5 mg/m ³ |
| OEL STEL | 5 mg/m ³ |

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| | |
|--|---|
| Dibenzoyl peroxide (94-36-0) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 5 mg/m ³ |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |
| Silica, cristobalite (14464-46-1) | |
| Canada (Alberta) - Occupational Exposure Limits | |
| OEL TWA | 0.025 mg/m ³ (respirable particulate) |
| Canada (Quebec) - Occupational Exposure Limits | |
| VEMP (OEL TWA) | 0.05 mg/m ³ (respirable dust) |
| Canada (British Columbia) - Occupational Exposure Limits | |
| OEL TWA | 0.025 mg/m ³ (respirable) |
| Canada (Manitoba) - Occupational Exposure Limits | |
| OEL TWA | 0.025 mg/m ³ (respirable particulate matter) |
| Canada (New Brunswick) - Occupational Exposure Limits | |
| OEL TWA | 0.05 mg/m ³ (respirable fraction) |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits | |
| OEL TWA | 0.025 mg/m ³ (respirable particulate matter) |
| Canada (Nova Scotia) - Occupational Exposure Limits | |
| OEL TWA | 0.025 mg/m ³ (respirable particulate matter) |
| Canada (Nunavut) - Occupational Exposure Limits | |
| OEL TWA | 0.05 mg/m ³ (respirable fraction (Silica - crystalline)) |
| Canada (Northwest Territories) - Occupational Exposure Limits | |
| OEL TWA | 0.05 mg/m ³ (respirable fraction (Silica - crystalline)) |
| Canada (Ontario) - Occupational Exposure Limits | |
| OEL TWA | 0.05 mg/m ³ (designated substances regulation-respirable fraction (Silica, crystalline)) |
| Canada (Prince Edward Island) - Occupational Exposure Limits | |
| OEL TWA | 0.025 mg/m ³ (respirable particulate matter) |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| OEL TWA | 0.05 mg/m ³ (Trydimite removed-respirable fraction (Silica - crystalline (Trydimite removed))) |
| Canada (Yukon) - Occupational Exposure Limits | |
| OEL TWA | 150 particle/mL (Silica) |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 0.025 mg/m ³ (respirable particulate matter) |
| ACGIH chemical category | Suspected Human Carcinogen |

8.2. Appropriate engineering controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | : Ensure good ventilation of the work station. |
| Environmental exposure controls | : Avoid release to the environment. |

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8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Solid |
| Appearance | : Powder. |
| Colour | : Various colours |
| Odour | : Odourless |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : 251 °C |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : Not applicable |
| Explosive limits | : Not applicable |

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

| | |
|------------------------------------|--|
| Reactivity | : The product is non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use. |
| Conditions to avoid | : None under recommended storage and handling conditions (see section 7). |
| Incompatible materials | : Strong oxidizing agents. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| Hardening time: | : No additional information available |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|-------------------|
| Acute toxicity (oral) | : Not classified. |
| Acute toxicity (dermal) | : Not classified. |
| Acute toxicity (inhalation) | : Not classified. |

| Dibenzoyl peroxide (94-36-0) | |
|------------------------------|-----------------------|
| LD50 oral rat | 7710 mg/kg |
| ATE CA (oral) | 7710 mg/kg bodyweight |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Not classified. |
| Serious eye damage/irritation | : Not classified. |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified. |
| Carcinogenicity | : May cause cancer. |
| Reproductive toxicity | : Not classified. |
| STOT-single exposure | : Not classified. |
| STOT-repeated exposure | : Causes damage to organs through prolonged or repeated exposure. |

| Silica, cristobalite (14464-46-1) | |
|-----------------------------------|---|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified. |

| VariDur 200 Powder | |
|-------------------------------------|--|
| Viscosity, kinematic | Not applicable |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. |

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified. |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified. |

| Dibenzoyl peroxide (94-36-0) | |
|------------------------------|--|
| LC50 - Fish [1] | 0.0602 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static]) |

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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. Other adverse effects

Ozone : Not classified.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with TDG / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

TDG
Transport hazard class(es) (TDG) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG
No data available

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IMDG

No data available

IATA

No data available

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

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Methyl methacrylate polymer (9011-14-7)

Listed on the Canadian DSL (Domestic Substances List)

Dibenzoyl peroxide (94-36-0)

Listed on the Canadian DSL (Domestic Substances List)

Silica, cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

Silica, amorphous (7631-86-9)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Methyl methacrylate polymer (9011-14-7)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Dibenzoyl peroxide (94-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Silica, cristobalite (14464-46-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Silica, amorphous (7631-86-9)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date : 05/23/2022

Revision date : 05/23/2022

Full text of H-statements:

| | |
|------|---|
| H241 | Heating may cause a fire or explosion. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

Safety Data Sheet (SDS), Canada

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