

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : VariKleer Powder  
Product code : 20-3591, 20-3591-002, 20-3591-010

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Polymer preparations and compounds  
Restrictions on use : None known

#### 1.3. Supplier

Buehler  
41 Waukegan Rd  
Lake Bluff, IL 60044  
T 1-847-295-6500  
[custserv@buehler.com](mailto: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(s) identification

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

##### GHS US classification

Skin sensitization, Category 1 H317 May cause an allergic skin reaction  
Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H317 - May cause an allergic skin reaction  
Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - If on skin: Wash with plenty of water.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.  
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 which do not result in classification

No additional information available

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### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                | Product identifier | %    | GHS US classification  |
|---------------------|--------------------|------|--|
| Dibenzoyl peroxide  | CAS-No.: 94-36-0   | 0.72 | Org. Perox. B, H241<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                    |
| Methyl methacrylate | CAS-No.: 80-62-6   | 0.5  | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335 |

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 general            | : If you feel unwell, seek medical advice (show the label where possible).  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.  |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:<br>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/doctor/physician if you feel unwell.   |

### 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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |                                  |
|--------------------------------|----------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. |
| Unsuitable extinguishing media | : Not determined.                |

### 5.2. Specific hazards arising from the chemical

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

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

|                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Fight fire with normal precautions from a reasonable distance.   |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.  
Hygiene measures : 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 in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### VariKleer Powder

No additional information available

##### Methyl methacrylate (80-62-6)

###### USA - ACGIH - Occupational Exposure Limits

|                         |   |
|-------------------------|---|
| ACGIH OEL TWA [ppm]     | 50 ppm  |
| ACGIH OEL STEL [ppm]    | 100 ppm   |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |

###### USA - OSHA - Occupational Exposure Limits

|                    |                       |
|--------------------|-----------------------|
| OSHA PEL (TWA) [1] | 410 mg/m <sup>3</sup> |
| OSHA PEL (TWA) [2] | 100 ppm               |

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

#### USA - ACGIH - Occupational Exposure Limits

|                         |  |
|-------------------------|--|
| ACGIH OEL TWA           | 5 mg/m <sup>3</sup>                    |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen |

#### USA - OSHA - Occupational Exposure Limits

|                    |                     |
|--------------------|---------------------|
| OSHA PEL (TWA) [1] | 5 mg/m <sup>3</sup> |
|--------------------|---------------------|

### 8.2. Appropriate engineering controls

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

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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



## SECTION 9: Physical and chemical properties

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

|   |                          |
|---|--------------------------|
| Physical state                              | : Solid                  |
| Appearance                                  | : Solid.                 |
| Color                                       | : Colorless              |
| Odor  | : Characteristic         |
| Odor threshold                              | : No data available      |
| pH  | : No data available      |
| Melting point                               | : 110 °C                 |
| Freezing point                              | : Not applicable         |
| Boiling point                               | : No data available      |
| Flash point                                 | : 251 °C                 |
| Relative evaporation rate (butyl acetate=1) | : No data available      |
| Flammability                                | : Non flammable.         |
| Vapor pressure                              | : No data available      |
| Relative vapor density at 20°C              | : No data available      |
| Relative density                            | : No data available      |
| Density                                     | : 1.16 g/cm <sup>3</sup> |
| Solubility                                  | : No data available      |

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|   |                     |
|---|---------------------|
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : Not applicable    |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : Not applicable    |
| Viscosity, dynamic                              | : No data available |
| Explosion limits                                | : Not applicable    |
| Explosive properties                            | : No data available |
| Oxidizing properties                            | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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. |

| Methyl methacrylate (80-62-6) |                        |
|-------------------------------|------------------------|
| LD50 oral rat                 | 8420 – 10000 mg/kg     |
| LD50 dermal rabbit            | 5000 – 7500 mg/kg      |
| LC50 Inhalation - Rat         | 29.8 mg/l/4h           |
| ATE US (oral)                 | 8420 mg/kg body weight |
| ATE US (dermal)               | 5000 mg/kg body weight |
| ATE US (vapors)               | 29.8 mg/l/4h           |
| ATE US (dust, mist)           | 29.8 mg/l/4h           |

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| Dibenzoyl peroxide (94-36-0) |                        |
|------------------------------|------------------------|
| LD50 oral rat                | 7710 mg/kg             |
| ATE US (oral)                | 7710 mg/kg body weight |

|                                   |  |
|-----------------------------------|--|
| 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                   | : Not classified.                      |

| Methyl methacrylate (80-62-6) |                      |
|-------------------------------|----------------------|
| IARC group                    | 3 - Not classifiable |

| Dibenzoyl peroxide (94-36-0) |                      |
|------------------------------|----------------------|
| IARC group                   | 3 - Not classifiable |

|                       |                   |
|-----------------------|-------------------|
| Reproductive toxicity | : Not classified. |
| STOT-single exposure  | : Not classified. |

| Methyl methacrylate (80-62-6) |                                   |
|-------------------------------|-----------------------------------|
| STOT-single exposure          | May cause respiratory irritation. |

|                                     |  |
|-------------------------------------|--|
| STOT-repeated exposure              | : Not classified.                      |
| Aspiration hazard                   | : Not classified.                      |
| 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 or to cause long-term adverse effects in the environment. |
|-------------------|--|

| Methyl methacrylate (80-62-6) |  |
|-------------------------------|--|
| LC50 - Fish [1]               | 243 – 275 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 - Crustacea [1]          | 69 mg/l (Exposure time: 48 h - Species: Daphnia magna)                             |
| LC50 - Fish [2]               | 125.5 – 190.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])   |

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

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

| Methyl methacrylate (80-62-6)                   |                           |
|---|---------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.38 (at 20 °C (at pH 7)) |

| Dibenzoyl peroxide (94-36-0)                    |                             |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.2 (at 22 °C (at pH 7.02)) |

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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## 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 DOT / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

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

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not applicable

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

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

### 14.4. Packing group

Packing group (DOT) : 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

**DOT**  
No data available

**IMDG**  
No data available

**IATA**  
No data available

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### 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. US Federal regulations

#### VariKleer Powder

|                                     |   |
|-------------------------------------|---|
| SARA Section 311/312 Hazard Classes | Health hazard - Respiratory or skin sensitization |
|-------------------------------------|---|

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### Methyl methacrylate (80-62-6)

Listed on EPA Hazardous Air Pollutant (HAPS)

|           |         |
|-----------|---------|
| CERCLA RQ | 1000 lb |
|-----------|---------|

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component                    | State or local regulations   |
|------------------------------|--|
| Methyl methacrylate(80-62-6) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |
| Dibenzoyl peroxide(94-36-0)  | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |

## SECTION 16: Other information

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#### Full text of H-phrases

|      |                                       |
|------|---------------------------------------|
| H225 | Highly flammable liquid and vapor     |
| H241 | Heating may cause a fire or explosion |
| H315 | Causes skin irritation                |
| H317 | May cause an allergic skin reaction   |
| H319 | Causes serious eye irritation         |



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| Full text of H-phrases |                                  |
|------------------------|----------------------------------|
| H335                   | May cause respiratory irritation |

Safety Data Sheet (SDS), USA - HSI

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