SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: VF200PRO Versatile High-Load Adhesive Injection - PART A

1.2 RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Use of the substance/mixture: Adhesive mortar for fastening elements A-component (resin)

Uses advised against: No restriction

1.3 EMERGENCY PHONE NUMBER

Emergency Telephone: 1-800-577-3171

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

29 CFR Part 1910.1200:
- Respiratory or skin sensitization: Skin Sens. 1
- Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)

2.2 LABEL ELEMENTS

29 CFR Part 1910.1200:

Hazard Pictograms: !

Signal Word: Warning

Hazard Statements: May cause an allergic skin reaction
- May cause respiratory irritation

Precautionary statements: If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
2.2 LABEL ELEMENTS CONTINUED

Precautionary statements:  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container to to in accordance with local/regional/national/international regulation.

Hazard not otherwise classified:  
No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>COMPONENTS</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>97-90-5</td>
<td>ethylene dimethacrylate</td>
<td>11.69 %</td>
</tr>
<tr>
<td>27813-02-1</td>
<td>Methacrylic acid, monoester with propane-1,2-diol</td>
<td>6.67 %</td>
</tr>
<tr>
<td>38668-48-3</td>
<td>1,1´-(p-Tolylimino)dipropan-2-ol</td>
<td>0.9682 %</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General information:  
Take off immediately all contaminated clothing and wash it before reuse.

After inhalation:  
Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin:  
Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes:  
Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion:  
Rinse mouth immediately and drink plenty of water.

Most important symptoms and effects, both acute and delayed:  
Allergic reactions

Indication of any immediate medical attention and special treatment needed:  
Treat symptomatically.
SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media: Extinguishing powder. Water spray jet.

Unsuitable extinguishing media: Full water jet

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Pyrolysis products, toxic. Carbon monoxide.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE - FIGHTERS

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 ADDITIONAL INFORMATION

Supress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Provide adequate ventilation. Do not breathe gas/fume/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter into surface water or drains.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4 REFERENCE TO OTHER SECTIONS

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13
SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling: Use only outdoors or in a well-ventilated area. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Advice on protection against fire and explosion: No special fire protection measures are necessary.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements for storage rooms and vessels: Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place.

Advice on storage compatibility: Do not use for products which come into contact with the food stuffs.

Further information on storage conditions: Storage temperature: 5-25°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS & EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>SUBSTANCE</th>
<th>PPM</th>
<th>MG/M³</th>
<th>F/CC</th>
<th>CATEGORY</th>
<th>ORIGIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline (as respirable dust)</td>
<td>-</td>
<td>0.05</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline quartz, respirable dust</td>
<td>(Z-3)</td>
<td>(Z-3)</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline quartz, total dust</td>
<td>(Z-3)</td>
<td>(Z-3)</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
</tbody>
</table>

Additional advice on limit values: The contained quartz is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded.

8.2 EXPOSURE CONTROLS

Protective and hygiene measures: Remove contaminated, saturated clothing immediately. Draw up and observe skin protection program. 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 protection/face protection.
8.2 EXPOSURE CONTROLS CONTINUED

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.

Wearing time with occasional contact (splashes): 0,4mm NBR (Nitrile rubber) >480min (EN374)
Wearing time with permanent contact 0,5mm NBR (Nitrile rubber) >480min (EN374)

Skin protection: Wear suitable protective clothing.

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>Light beige</td>
</tr>
<tr>
<td>pH-Value</td>
<td>Not determined</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial boiling point &amp; boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>Not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>Not determined</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>Not determined</td>
</tr>
<tr>
<td>Gas</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidising</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Density (at 20 °C)</td>
<td>1,71 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>The study does not need to be conducted because the substance is known to be insoluble in water.</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Solid content</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

www.allfasteners.com  |  Customer Service 800 577 3171
SECTION 10: STABILITY AND REACTIVITY

Reactivity: No hazardous reaction when handled and stored according to provisions.
Chemical Stability: The product is stable under storage at normal ambient temperatures.
Possibility of hazardous reactions: No known hazardous reactions.
Conditions to avoid: none
Incompatible materials: No information available.
Hazardous decomposition products: No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION & EFFECTS

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>COMPONENTS</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>27813-02-1</td>
<td>Methacrylic acid, monoester with propane-1,2-diol</td>
<td>oral</td>
<td>LD50 11200 mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>38668-48-3</td>
<td>1,1´-(p-Tolylimino)dipropan-2-ol</td>
<td>oral</td>
<td>LD50 27,5 mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 &gt; 5000 mg/kg</td>
<td>Rabbit</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>LD50 &gt;2000 mg/kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity (IARC): Silica dust, crystalline, in the form of quartz or cristobalite (CAS 14808-60-7) is listed in group 1.

Aspiration hazard: The contained quartz is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded.

Further information: The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
SECTION 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: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Advice on disposal: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging: Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: TRANSPORT INFORMATION

US DOT 49 CFR 172.101

Proper shipping name: Not a hazardous material with respect to these transport regulations.

Marine transport (IMDG)

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:

Air transport (ICAO-TI/IATA-DGR)

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:

Environmental hazards

Environmentally Hazardous: No.
Special precautions for user
Transport in bulk according to Annex II of MARPOL 73 / 78 and the IBC Code:

No. Not applicable.
### SECTION 15: REGULATORY INFORMATION

#### 15.1 US REGULATIONS

**National Inventory TSCA**

All ingredients in this material are included on or exempted from listing on the TSCA Inventory.

**National regulatory information**

SARA Section 311/312 Hazards:
- ethylene dimethacrylate (97-90-5): Immediate (acute) health hazard
- Methacrylic acid, monoester with propane-1,2-diol (27813-02-1): Immediate (acute) health hazard
- 1,1′-(p-Tolylimino)dipropan-2-ol (38668-48-3): Immediate (acute) health hazard

#### 15.2 STATE REGULATIONS

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

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Additional information**

VOC content: 6,9 % (DIN EN ISO 11890-2)

### SECTION 16: OTHER INFORMATION

**Revision date:** 26.06.2018  
**Version number:** 1,04,2  
**Abbreviations and acronyms:**
- CAS: Chemical Abstracts Service  
- CLP: Classification, Labeling and Packaging  
- DMEL: Derived Minimal Effect level  
- DNEL: Derived No Effect Level  
- EC50: Effective concentration, 50%  
- ErC50: EC50 in terms of reduction of growth rate  
- IATA: International Air Transport Association  
- IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)  
- IMDG: International Maritime Code for Dangerous Goods  
- LC50: Lethal concentration, 50%  
- LD50: Lethal dose, 50%  
- NOEC: No Observed Effect Concentration  
- OECD: Organisation for Economic Co-operation and Development  
- PBT: persistent, bioaccumulative and toxic  
- PEL: Permissible Exposure Limits
SECTION 16: OTHER INFORMATION

vPvB: very persistent and very bioaccumulative
PNEC: Predicted No Effect Concentration
REL: Recommended Exposure Limits
VOC: Volatile organic compound

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

Disclaimer: This 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. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability of such information for his own particular use.
SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: VF200PRO Versatile High-Load Adhesive Injection - PART B

1.2 RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Use of the substance/mixture: compound mortar B-component (hardener)

Uses advised against: No restriction

1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier: Allfasteners USA, LLC.
480 Meadow Lane, Carlstadt, NJ 07072
Phone: 1-800-577-3171
Fax: 201-783-8840
Email: sales@allfasteners.com
www.Allfasteners.com

Emergency Telephone: 1-800-577-3171

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

29 CFR Part 1910.1200: Serious eye damage/eye irritation: Eye Irrit. 2A
Respiratory or skin sensitization: Skin Sens. 1

2.2 LABEL ELEMENTS

29 CFR Part 1910.1200:

Hazard Pictograms:

Signal Word: Warning

Hazard Statements: May cause an allergic skin reaction
Causes serious eye irritation

Precautionary statements: If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
2.2 LABEL ELEMENTS CONTINUED

Precautionary statements: Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Dispose of contents/container to to in accordance with local/regional/national/international regulation.

Hazards not otherwise classified: This substance meets the PBT criteria of REACH, Annex XIII.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>COMPONENTS</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-36-0</td>
<td>dibenzoyl peroxide; benzoyl peroxide</td>
<td>11.15 %</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General information: Change contaminated, saturated clothing.

After inhalation: Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin: After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

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

After ingestion: Rinse mouth immediately and drink plenty of water.

Most important symptoms and effects, both acute and delayed: Allergic reactions

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.
SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media: Co-ordinate fire-fighting measures to the fire surroundings.
- Extinguishing powder.
- Water spray jet.

Unsuitable extinguishing media: Full water jet.

5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Pyrolysis products, toxic. Carbon monoxide.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE - FIGHTERS

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 ADDITIONAL INFORMATION

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Provide adequate ventilation. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter into surface water or drains In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Take up mechanically. 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.

6.4 REFERENCE TO OTHER SECTIONS

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13
SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling: Use only outdoors or in a well-ventilated area. When using do not eat, drink or smoke. Use protective skin cream before handling the product.

Advice on protection against fire and explosion: No special fire protection measures are necessary.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements for storage rooms and vessels: Keep container tightly closed. Keep/Store only in original container.

Advice on storage compatibility: Do not use for products which come into contact with the food stuffs. Store in a well-ventilated place. Keep cool.

Further information on storage conditions: Keep container tightly closed in a cool place. Storage temperature 5-25°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS & EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>SUBSTANCE</th>
<th>PPM</th>
<th>MG/M³</th>
<th>F/CC</th>
<th>CATEGORY</th>
<th>ORIGIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-36-0</td>
<td>Benzoyl peroxide</td>
<td>-</td>
<td>5</td>
<td>TWA (8 h)</td>
<td>PEL</td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline (as respirable dust)</td>
<td>-</td>
<td>0.05</td>
<td>TWA (8 h)</td>
<td>REL</td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Silica, crystalline quartz, respirable dust</td>
<td>(Z-3)</td>
<td>(Z-3)</td>
<td>TWA (8 h)</td>
<td>PEL</td>
<td></td>
</tr>
</tbody>
</table>

Additional advice on limit values: The contained quartz is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded.

8.2 EXPOSURE CONTROLS

Protective and hygiene measures: Remove contaminated, saturated clothing immediately. Draw up and observe skin protection program. 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: Suitable eye protection: Wear eye/face protection.
8.2 EXPOSURE CONTROLS CONTINUED

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.

Wearing time with occasional contact (splashes): 0,4mm NBR (Nitrile rubber) >480min (EN374)
Wearing time with permanent contact 0,5mm NBR (Nitrile rubber) >480min (EN374)

Skin protection: Wear suitable protective clothing.

Respiratory protection: In case of inadequate ventilation wear respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>pH-Value</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Initial boiling point &amp; boiling range</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Gas</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Gas</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidising.</td>
</tr>
<tr>
<td>Available oxygen content (%)</td>
<td>&lt; 1%</td>
</tr>
<tr>
<td>no classification</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density (at 20 °C):</td>
<td>1,59 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>The study does not need to be conducted because the substance is known to be insoluble in water.</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Other information</td>
<td></td>
</tr>
<tr>
<td>Solid content</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

Reactivity: See section 10.3 (Possibility of hazardous reactions)
Chemical Stability: The product is stable under storage at normal ambient temperatures.
Possibility of hazardous reactions: Violent reaction with: Oxidising agent
Conditions to avoid: See section 7.2 (Handling and Storage)
Incompatible materials: Oxidising agent, strong.
Hazardous decomposition products: No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION & EFFECTS

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-36-0</td>
<td>dibenzoyl peroxide; benzoyl peroxide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>oral</td>
<td>LD50 &gt;5000 mg/kg</td>
<td>Rat</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity (OSHA): No ingredient of this mixture is listed.
Carcinogenicity (IARC): Silica dust, crystalline, in the form of quartz or cristobalite (CAS 14808-60-7) is listed in group 1. Benzoyl peroxide (CAS 94-36-0) is listed in group 3.
Carcinogenicity (NTP): No ingredient of this mixture is listed.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus )
IC10: (0 - 72 h) = 30 mg/l
IC50: (0 - 72 h) = 150 mg/l

OECD 202 (Daphnia magna)
EC0/NOEC (48h) = 100 mg/l
EC50 (48h) = >500 mg/l
EC100 (48h) = >>500 mg/l
SECTION 12: ECOLOGICAL INFORMATION CONTINUED

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: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Advice on disposal: Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging: Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: TRANSPORT INFORMATION

US DOT 49 CFR 172.101

Proper shipping name: Not a hazardous material with respect to these transport regulations.

Marine transport (IMDG)

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:

Air transport (ICAO-TI/IATA-DGR)

UN number:
UN proper shipping name:
Transport hazard class(es):
Packing group:

Environmental hazards

Environmentally Hazardous:

Special precautions for user

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

No.

No information available.

Not applicable.
SECTION 15: REGULATORY INFORMATION

15.1 US REGULATIONS

National Inventory TSCA
All ingredients of this material are included on the TSCA Inventory.

National regulatory information
SARA Section 311/312 Hazards:
Benzoyl peroxide (94-36-0): Reactive, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:
Benzoyl peroxide (94-36-0): De minimis limit = 1.0 %, Reportable threshold = Standard

15.2 STATE REGULATIONS

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Additional information
VOC content: 4,3 % (DIN EN ISO 11890-2)

SECTION 16: OTHER INFORMATION

Revision date: 26.06.2018
Version number: 1,02,0
Abbreviations and acronyms:
CAS: Chemical Abstracts Service
CLP: Classification, Labeling and Packaging
DMEL: Derived Minimal Effect level
DNEL: Derived No Effect Level
EC50: Effective concentration, 50%
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)
ICAO: International Civil Aviation Organization
IC50: Inhibitory concentration, 50%
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
PBT: persistent, bioaccumulative and toxic
vPvB: very persistent and very bioaccumulative
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)
VOC: Volatile organic compound
SECTION 16: OTHER INFORMATION

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

Disclaimer: This 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. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability of such information for his own particular use.