# SAFETY DATA SHEET

TempSpan® Temporary Crown and Bridge Material - Base

### **Section 1. Identification**

**GHS** product identifier

: TempSpan® Temporary Crown and Bridge Material - Base

Other means of identification

: Not available.

Product type

: Paste.

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

Product use : Dental product (Kit)

Area of application : Professional applications.

Manufacturer : Pentron Clinical

1717 West Collins Avenue Orange, CA 92867-5422

Telephone no.: 1-203-265-7397, Toll Free: 1-800-551-0283

e-mail address of person responsible for this SDS

: edwin.varela@kavokerrgroup.com

Emergency telephone number (with hours of operation) : CHEMTREC® (24 hours) U.S.: 1-800-424-9300 International: +1-703-527-3887

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Health effects are based on the uncured material.

Classification of the substance or mixture

: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

irritation) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 98.8%

**GHS label elements** 

Hazard pictograms



Signal word : Warning

**Hazard statements** : Causes serious eye irritation.

May cause respiratory irritation.

**Precautionary statements** 

**Prevention** 

: Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling.

Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or physician if you feel unwell. 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 attention.

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### Section 2. Hazards identification

**Storage** 

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise

classified

None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### **CAS** number/other identifiers

**CAS** number : Not applicable. **Product code** : Not available.

| Ingredient name | Other names | %                  | CAS number               |
|-----------------|-------------|--------------------|--------------------------|
|                 | 3           | 30 - 60<br>30 - 60 | 65997-17-3<br>41637-38-1 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** 

: No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

Inhalation

: No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Skin contact** 

: No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.

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

#### Potential acute health effects

**Eye contact** 

: Causes serious eye irritation.

Inhalation

: May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin contact** 

: No known significant effects or critical hazards.

Ingestion

: Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eve contact** 

: Adverse symptoms may include the following:

pain or irritation watering

redness

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### Section 4. First aid measures

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data. Ingestion : No specific data.

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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present,

the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing

media

: In case of fire, use water, dry chemical powder or carbon dioxide.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products : No specific fire or explosion hazard.

: Decomposition products may include the following materials: carbon dioxide carbon monoxide

nitrogen oxides metal oxide/oxides

**Special protective actions** for fire-fighters

: In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely.

For emergency responders: Low release. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

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### Section 6. Accidental release measures

Large spill

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

: No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

| Ingredient name                         | Exposure limits   |  |
|---|---|--|
| Ingredient name glass, oxide, chemicals | NIOSH REL (United States, 10/2013).  TWA: 3 f/cc 10 hours. Form: Fibers of spec length  TWA: 5 mg/m³ 10 hours. Form: Total  ACGIH TLV (United States, 6/2013).  TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction  TWA: 1 f/cc 8 hours. Form: Respirable fibers: length greater than 5 uM; aspect ratio equal to |  |
|   | or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination.   |  |

**Appropriate engineering** controls

: No special measures are required for small quantities under normal and intended conditions of product use.

**Environmental exposure** controls

: No special measures are required for small quantities under normal and intended conditions of product use.

#### Individual protection measures

**Hygiene measures** 

: No special measures are required for small quantities under normal and intended conditions of product use.

**Eye/face protection** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

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# Section 8. Exposure controls/personal protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: No special measures are required for small quantities under normal and intended conditions of product use.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: No special measures are required for small quantities under normal and intended conditions of product use.

# Section 9. Physical and chemical properties

**Appearance** 

: Solid. [Paste.] Physical state Color Various Odor : Fruity.

: Not available. Odor threshold pН : Not applicable. : Not available. **Melting point** Not available. **Boiling point** : Not available. Flash point **Evaporation rate** : Not available. : Not available. Flammability (solid, gas) Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available. Vapor density : Not available. Relative density Not available.

: Very slightly soluble in the following materials: cold water and hot water. **Solubility** 

: Not available. Solubility in water Partition coefficient: n-Not available.

octanol/water

: Not available. **Auto-ignition temperature Decomposition temperature** : Not available. **SADT** Not available. : Not available. **Viscosity Density** : 1.4 g/cm<sup>3</sup>

# Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

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# Section 10. Stability and reactivity

#### **Conditions to avoid**

: Protect from sunlight. Initiators. Avoid excessive heat.

#### Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials and reducing materials.

Peroxide.

# Hazardous decomposition products

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

# Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Not available.

**Conclusion/Summary** 

: Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.

#### **Irritation/Corrosion**

Not available.

#### **Conclusion/Summary**

Skin

: Based on the criteria of the protocol, this product is considered a negligible irritant per ISO 10993-10.

#### **Sensitization**

Not available.

#### **Conclusion/Summary**

Skin

: Kligman score: Grade I (weak sensitizer)

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Classification**

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| glass, oxide, chemicals | -    | 3    | -   |

#### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

| Name  | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| glass, oxide, chemicals   | Category 3 | Not applicable.   | Respiratory tract irritation |
| Poly(oxy-1,2-ethanediyl), $\alpha,\alpha'$ -[(1-methylethylidene)di-4,1-phenylene]bis[ $\omega$ -[(2-methyl-1-oxo-2-propen-1-yl)oxy]- | Category 3 | Not applicable.   | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

Not available.

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# Section 11. Toxicological information

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : May cause respiratory irritation. Exposure to decomposition products may cause a

health hazard. Serious effects may be delayed following exposure.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion** : Irritating to mouth, throat and stomach.

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

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : 1

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects: Not available.

#### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

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# Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

| Product/ingredient name   | LogPow | BCF | Potential |
|---|--------|-----|-----------|
| Poly(oxy-1,2-ethanediyl), $\alpha,\alpha'$ -[(1-methylethylidene)di-4,1-phenylene]bis[ $\omega$ -[(2-methyl-1-oxo-2-propen-1-yl)oxy]- |        | -   | high      |

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

# **Section 14. Transport information**

|                            | DOT Classification | IMDG           | IATA           |
|----------------------------|--------------------|----------------|----------------|
| UN number                  | Not regulated.     | Not regulated. | Not regulated. |
| UN proper shipping name    | -                  | -              | -              |
| Transport hazard class(es) | -                  | -              | -              |
| Packing group              | -                  | -              | -              |
| Environmental hazards      | No.                | No.            | No.            |
| Additional information     | -                  | -              | -              |

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

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# Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): Not determined.

**Clean Air Act Section 112** 

(b) Hazardous Air Pollutants (HAPs)

: Listed

Pollutants (HAPS)

Clean Air Act Section 602 Class I Substances : Not listed

Class I Substances

Clean Air Act Section 602 Class II Substances : Not listed

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Immediate (acute) health hazard

**Composition/information on ingredients** 

| Name  | %       | Fire<br>hazard | Sudden<br>release of<br>pressure | Reactive | Immediate<br>(acute)<br>health<br>hazard | Delayed<br>(chronic)<br>health<br>hazard |
|---|---------|----------------|----------------------------------|----------|--|--|
| glass, oxide, chemicals   | 30 - 60 | No.            | No.                              | No.      | Yes.                                     | No.                                      |
| Poly(oxy-1,2-ethanediyl), $\alpha,\alpha'$ -[(1-methylethylidene)di-4,1-phenylene]bis[ $\omega$ -[(2-methyl-1-oxo-2-propen-1-yl)oxy]- |         | No.            | No.                              | No.      | Yes.                                     | No.                                      |

#### **SARA 313**

Not applicable.

### **State regulations**

Massachusetts : The following components are listed: MINERAL WOOL FIBER

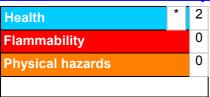
New York
None of the components are listed.
New Jersey
None of the components are listed.
Pennsylvania
None of the components are listed.

California Prop. 65

None of the components are listed.

### Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**



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### Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** 



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

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Prepared by

: 1 : IHS

**Key to abbreviations** 

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References

: HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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# SAFETY DATA SHEET

TempSpan® Temporary Crown and Bridge Material - Catalyst

### **Section 1. Identification**

**GHS** product identifier

: TempSpan® Temporary Crown and Bridge Material - Catalyst

Other means of identification

: Not available.

**Product type** : Paste.

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

**Product use** : Dental product (Kit)

Area of application : Professional applications.

: Pentron Clinical **Manufacturer** 

> 1717 West Collins Avenue Orange, CA 92867-5422

Telephone no.: 1-203-265-7397, Toll Free: 1-800-551-0283

e-mail address of person responsible for this SDS

: edwin.varela@kavokerrgroup.com

**Emergency telephone** number (with hours of operation)

: CHEMTREC® (24 hours) U.S.: 1-800-424-9300 International: +1-703-527-3887

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Health effects are based on the uncured material.

**Classification of the** substance or mixture : SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 98.3%

**GHS** label elements

**Hazard pictograms** 



Signal word : Warning

**Hazard statements** Causes serious eve irritation. May cause respiratory irritation.

**Precautionary statements** 

**Prevention** 

Response

: Wear eye or face protection. Use only outdoors or in a well-ventilated area. Wash hands

thoroughly after handling.

: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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 attention.

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### Section 2. Hazards identification

**Storage** 

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise

classified

None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

#### **CAS** number/other identifiers

**CAS** number : Not applicable. **Product code** : Not available.

| Ingredient name                | Other names             | %        | CAS number |
|--------------------------------|-------------------------|----------|------------|
| glass, oxide, chemicals        | glass, oxide, chemicals | 60 - 100 | 65997-17-3 |
| 1,6-hexanediyl bismethacrylate | 1,6-hexanediyl          | 7 - 13   | 6606-59-3  |
|                                | bismethacrylate         |          |            |
| dibenzoyl peroxide             | dibenzoyl peroxide      | 1 - 5    | 94-36-0    |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

**Eye contact** 

: No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

Inhalation

: No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Skin contact** 

: No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.

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

#### Potential acute health effects

**Eye contact** 

: Causes serious eye irritation.

Inhalation

: May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin contact** 

: No known significant effects or critical hazards.

Ingestion

: Irritating to mouth, throat and stomach.

### Over-exposure signs/symptoms

**Eve contact** 

: Adverse symptoms may include the following:

pain or irritation watering redness

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### Section 4. First aid measures

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data. Ingestion : No specific data.

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

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. Notes to physician

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present,

the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing

media

: In case of fire, use water, dry chemical powder or carbon dioxide.

**Unsuitable extinguishing** 

media

: Do not use water jet.

Specific hazards arising from the chemical

**Hazardous thermal** decomposition products : No specific fire or explosion hazard.

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides metal oxide/oxides

**Special protective actions** for fire-fighters

: In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely.

For emergency responders: Low release. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

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### Section 6. Accidental release measures

Large spill

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

: No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

| Ingredient name         | Exposure limits   |
|-------------------------|---|
| glass, oxide, chemicals | NIOSH REL (United States, 10/2013).  TWA: 3 f/cc 10 hours. Form: Fibers of spec length  TWA: 5 mg/m³ 10 hours. Form: Total  ACGIH TLV (United States, 6/2013).  TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction  TWA: 1 f/cc 8 hours. Form: Respirable fibers: length greater than 5 uM; aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination. |
| dibenzoyl peroxide      | ACGIH TLV (United States, 6/2013).  TWA: 5 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 5 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).  TWA: 5 mg/m³ 10 hours.  OSHA PEL (United States, 2/2013).  TWA: 5 mg/m³ 8 hours.   |

**Appropriate engineering** controls

**Environmental exposure** controls

- : No special measures are required for small quantities under normal and intended conditions of product use.
- : No special measures are required for small quantities under normal and intended conditions of product use.

#### **Individual protection measures**

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# Section 8. Exposure controls/personal protection

**Hygiene measures** 

: No special measures are required for small quantities under normal and intended conditions of product use.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: No special measures are required for small quantities under normal and intended conditions of product use.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: No special measures are required for small quantities under normal and intended conditions of product use.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Solid. [Paste.]

Color : Various
Odor : Fruity.

Odor threshold : Not available.

pH : Not applicable.

Melting point : Not available.

Boiling point : Not available.

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure: Not available.Vapor density: Not available.Relative density: Not available.

**Solubility**: Very slightly soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: noctanol/water : Not available.

Auto-ignition temperature Decomposition temperature

: Not available.: Not available.: Not available.: Not available.

Viscosity : Not available

Density : 1.4 g/cm³

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**SADT** 

## Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid** 

: Protect from sunlight. Initiators. Avoid excessive heat.

Incompatible materials

: Reactive or incompatible with the following materials: oxidizing materials and reducing materials.

Amines

Hazardous decomposition products

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

# **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

| Product/ingredient name | Result    | Species | Dose       | Exposure |
|-------------------------|-----------|---------|------------|----------|
| dibenzoyl peroxide      | LD50 Oral | Rat     | 6400 mg/kg | -        |

**Conclusion/Summary** 

: Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.

#### **Irritation/Corrosion**

| Product/ingredient name | Result               | Species | Score | Exposure                | Observation |
|-------------------------|----------------------|---------|-------|-------------------------|-------------|
| dibenzoyl peroxide      | Eyes - Mild irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |

### **Conclusion/Summary**

Skin

: Based on the criteria of the protocol, this product is considered a negligible irritant per ISO 10993-10.

### **Sensitization**

Not available.

#### **Conclusion/Summary**

Skin

: Kligman score: Grade I (weak sensitizer)

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

| Product/ingredient name | OSHA | IARC | NTP |
|-------------------------|------|------|-----|
| glass, oxide, chemicals | -    | 3    | -   |
| dibenzoyl peroxide      | -    | 3    | -   |

#### Reproductive toxicity

Not available.

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## **Section 11. Toxicological information**

### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

| Name                           | •          | Route of exposure | Target organs                |
|--------------------------------|------------|-------------------|------------------------------|
| glass, oxide, chemicals        | Category 3 | Not applicable.   | Respiratory tract irritation |
| 1,6-hexanediyl bismethacrylate | Category 3 | Not applicable.   | Respiratory tract irritation |

### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : May cause respiratory irritation. Exposure to decomposition products may cause a

health hazard. Serious effects may be delayed following exposure.

**Skin contact**: No known significant effects or critical hazards.

**Ingestion**: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects: Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.

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## **Section 11. Toxicological information**

Teratogenicity
Developmental effects

: No known significant effects or critical hazards.

No known significant effects or critical hazards.No known significant effects or critical hazards.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Not available.

**Fertility effects** 

# Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| dibenzoyl peroxide      | 3.2    | -   | low       |

#### **Mobility in soil**

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

# Section 14. Transport information

|                | l .            | IATA           |
|----------------|----------------|----------------|
| Not regulated. | Not regulated. | Not regulated. |
| -              | -              | -              |
| -              | -              | -              |
| -              | -              | -              |
| No.            | No.            | No.            |
|                | -<br>-         |                |

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# **Section 14. Transport information**

| Additional  | - | - | - |
|-------------|---|---|---|
| information |   |   |   |

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

: United States inventory (TSCA 8b): All components are listed or exempted. U.S. Federal regulations

Clean Air Act Section 112

: Listed

(b) Hazardous Air **Pollutants (HAPs)** 

**Clean Air Act Section 602** 

: Not listed

**Class I Substances** 

**Clean Air Act Section 602** 

: Not listed

Class II Substances

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

#### **Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

Classification : Immediate (acute) health hazard

#### **Composition/information on ingredients**

| Name                           | %        | Fire hazard | Sudden<br>release of<br>pressure | Reactive | Immediate<br>(acute)<br>health<br>hazard | Delayed<br>(chronic)<br>health<br>hazard |
|--------------------------------|----------|-------------|----------------------------------|----------|--|--|
| glass, oxide, chemicals        | 60 - 100 | No.         | No.                              | No.      | Yes.                                     | No.                                      |
| 1,6-hexanediyl bismethacrylate | 7 - 13   | No.         | No.                              | Yes.     | Yes.                                     | No.                                      |
| dibenzoyl peroxide             | 1 - 5    | No.         | No.                              | Yes.     | Yes.                                     | No.                                      |

#### **SARA 313**

|                                 | Product name       | CAS number | %     |
|---------------------------------|--------------------|------------|-------|
| Form R - Reporting requirements | dibenzoyl peroxide | 94-36-0    | 1 - 5 |
| Supplier notification           | dibenzoyl peroxide | 94-36-0    | 1 - 5 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

**Massachusetts** : The following components are listed: MINERAL WOOL FIBER; BENZOYL PEROXIDE

**New York** : None of the components are listed.

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# Section 15. Regulatory information

**New Jersey** 

: The following components are listed: BENZOYL PEROXIDE; DIBENZOYLPEROXIDE

Pennsylvania

: The following components are listed: PEROXIDE, DIBENZOYL

California Prop. 65

None of the components are listed.

### Section 16. Other information

### **Hazardous Material Information System (U.S.A.)**



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

#### **National Fire Protection Association (U.S.A.)**



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

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Prepared by

: 1 : IHS

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

References

: HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

▼ Indicates information that has changed from previously issued version.

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### **Section 16. Other information**

### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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