HENRY SCHEIN"

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/12/2014 Date of issue: 02/12/2014 Version: 1.0

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

Product identifier 1.1.

| Product form | : Mixture |
|--------------|-----------|
| | |

| Product name | : Chemical Cure Composite Base Paste |
|--------------|--------------------------------------|
| Synonyms | : Composite Chemical Cure Universal |

: Composite Chemical Cure Universal 1.2.

Use of the substance/mixture

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

: Construction of dental composites. This product is part of a two-component system. For use with catalyst component. For professional dental use only.

Details of the supplier of the safety data sheet 1.3.

Company

Henry Schein, Inc. 135 Duryea Road Melville, NY 11747 Telephone: 1-800-424-9300 www.henryschein.com

1.4. **Emergency telephone number**

Emergency number : 800-424-9300 CHEMTREC; 1-703-527-3887 CHEMTREC - Outside USA

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

Classification (GHS-US) Skin Irrit. 2 H315 Eye Irrit. 2A H319 Skin Sens. 1 H317

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

| Signal word (GHS-US) | GHS07 : Warning |
|-----------------------------------|-------------------------------------------------------------------------------|
| Hazard statements (GHS-US) | : H315 - Causes skin irritation |
| | H317 - May cause an allergic skin reaction |
| | H319 - Causes serious eye irritation |
| Precautionary statements (GHS-US) | : P261 - Avoid breathing vapors. |
| | P264 - Wash hands and forearms thoroughly after handling. |
| | P272 - Contaminated work clothing should not be allowed out of the workplace. |
| | P280 - Wear eye protection, protective gloves. |
| | P302+P352 - IF ON SKIN: Wash with plenty of soap and water. |
| | P305+P351+P338 - If in eyes: Rinse cautiously with water for several |
| | minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. |
| | P337+P313 - If eye irritation persists: Get medical advice/attention. |
| | P362 - Take off contaminated clothing and wash before reuse. |
| | P501 - Dispose of contents/container according to local, regional, national, |
| | and international regulations. |
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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| | 1 | r | |
|---------------------------------------------------|---------------------|---------|------------------------------|
| Name | Product identifier | % | Classification (GHS-US) |
| 2-Propenoic acid, 2-methyl-, (1- | (CAS No) 1565-94-2 | 7 - 13 | Skin Irrit. 2, H315 |
| methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy- | | | Eye Irrit. 2A, H319 |
| 3,1-propanediyl)] ester | | | Skin Sens. 1, H317 |
| Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1- | (CAS No) 41637-38-1 | 5 - 10 | Skin Irrit. 2, H315 |
| methylethylidene)di-4,1-phenylene]bis[.omega[(2- | | | Eye Irrit. 2B, H320 |
| methyl-1-oxo-2-propenyl)oxy]- | | | Skin Sens. 1, H317 |
| | | | STOT SE 3, H335 |
| | | | Aquatic Chronic 4, H413 |
| 2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester | (CAS No) 6606-59-3 | 1 - 5 | Skin Irrit. 2, H315 |
| | | | Eye Irrit. 2A, H319 |
| Silane, dichlorodimethyl-, reaction products with | (CAS No) 68611-44-9 | 1 - 5 | Acute Tox. 2 |
| silica | | | (Inhalation:dust,mist), H330 |
| Ethanol, 2,2'-[(4-methylphenyl)imino]bis- | (CAS No) 3077-12-1 | 0.1 - 1 | Acute Tox. 4 (Oral), H302 |
| | | | Acute Tox. 4 (Dermal), H312 |
| | | | Acute Tox. 4 |
| | | | (Inhalation:dust,mist), H332 |
| | | | Skin Irrit. 2, H315 |
| | | | Eye Dam. 1, H318 |
| | | | Skin Sens. 1, H317 |

Full text of H-phrases: see section 16

SECTION 4: First aid measures

| 4.1. Description of first aid mea | sures | | |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| First-aid measures general | : If medical advice is needed, have product container or label at hand. | | |
| First-aid measures after inhalation | : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists. | | |
| First-aid measures after skin contact | : Wash skin thoroughly with mild soap and water. Remove contaminated clothing. Obtain medical attention if irritation persists. | | |
| First-aid measures after eye contact | : Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice and attention. | | |
| First-aid measures after ingestion | : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. | | |
| 4.2. Most important symptoms and effects, both acute and delayed | | | |
| Symptoms/injuries | : Exposure may produce an allergic reaction. Causes skin irritation. Causes serious eye irritation. | | |
| Symptoms/injuries after inhalation | : None expected under normal conditions of use. | | |
| Symptoms/injuries after skin contact | : May cause skin irritation. May cause an allergic reaction. | | |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. | | |
| Symptoms/injuries after ingestion | : Ingestion is likely to be harmful or have adverse effects. | | |
| Chronic symptoms | : May cause an allergic skin reaction. | | |
| 4.3. Indication of any immediate medical attention and special treatment needed | | | |

If medical advice is needed, have product container or label at hand.

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| SECTION 5: Firefighting measure | res | | |
|----------------------------------------|---------------------------------------------------------------------------------------------|--|--|
| 5.1. Extinguishing media | | | |
| Suitable extinguishing media | : Not flammable. Use extinguishing media appropriate for surrounding fire. | | |
| Unsuitable extinguishing media | : None known. | | |
| 5.2. Special hazards arising from | the substance or mixture | | |
| Fire hazard | : Under conditions of fire this material may produce: Carbon oxides (CO, CO ₂). | | |
| | Barium oxides. Silicon oxides. Low molecular weight hydrocarbons. | | |
| Explosion hazard | : Product is not explosive. | | |
| • | : Stable at ambient temperature and under normal conditions of use. | | |
| 5.3. Advice for firefighters | | | |
| - | : Not flammable. | | |
| - | : Do not breathe fumes from fires or vapours from decomposition. All fire- | | |
| | fighting personnel must wear safety suits. | | |
| Protection during firefighting | : Use normal individual fire protective equipment. Use self-contained | | |
| | breathing apparatus when fighting fire in an enclosed area. | | |
| SECTION 6: Accidental release | | | |
| | tive equipment and emergency procedures | | |
| | : Do not get in eyes, on skin, or on clothing. Do not breathe dust. | | |
| 6.1.1. For non-emergency personnel | | | |
| | : Wear suitable protective clothing, gloves and eye/face protection. Large | | |
| | spills: Use recommended respiratory protection. | | |
| Emergency procedures | : Collect as any solid. Avoid creating or spreading dust. Any vacuum used for | | |
| Emergency procedures | clean-up must be equipped with high-efficiency (HEPA) filter. | | |
| 6.1.2. For emergency responders | | | |
| | : Wear suitable protective clothing, gloves and eye/face protection. Use | | |
| | recommended respiratory protection. Large spills: Use recommended | | |
| | respiratory protection. | | |
| Emergency procedures | : Contain and collect as any solid. Ventilate area. | | |
| 6.2. Environmental precautions | | | |
| | nts to prevent migration and entry into sewers or streams. | | |
| 6.3. Methods and material for co | | | |
| | : For small quantities associated with normal therapeutic use, collect spillage | | |
| Methods for cleaning up | and transfer to a closed waste container for disposal. | | |
| 6.4. Reference to other sections | | | |
| See Heading 8, Exposure Controls and P | ersonal Protection | | |
| | | | |
| SECTION 7: Handling and stora | | | |
| 7.1. Precautions for safe handling | | | |
| Precautions for safe handling | : Do not get in eyes, on skin, or on clothing. Wear recommended personal | | |
| 11 - 1 | protective equipment. Ensure there is adequate ventilation. | | |
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety procedures. | | |
| | Always wash your hands immediately after handling this product, and once | | |
| | again before leaving the workplace. Do not eat, drink or smoke in areas | | |
| | where product is used. | | |
| | including any incompatibilities | | |
| - | : Store in a dry, cool place. Store in original container and keep tightly closed. | | |
| 7.3. Specific end use(s) | | | |
| Construction of dental composites. | | | |
| SECTION 8: Exposure controls/p | ersonal protection | | |
| 8.1. Control parameters | | | |
| No Occupational Exposure Limits (OELs) | have been established for this product or its chemical components. | | |
| | | | |

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8.2. Exposure controls

| 8.2. Exposure controls | | | |
|--------------------------------------------|------------------------------------------------------------------|--|--|
| | Ensure adequate ventilation, especially in confined areas. | | |
| Personal protective equipment : | Safety glasses. Gloves. | | |
| | | | |
| Hand protection : | Impermeable protective gloves. | | |
| Eye protection : | Safety glasses. | | |
| | Wear suitable protective clothing. | | |
| | : In case of inadequate ventilation wear respiratory protection. | | |
| SECTION 9: Physical and chemica | al properties | | |
| 9.1. Information on basic physical | and chemical properties | | |
| Physical state | : Solid | | |
| Appearance | : Paste. | | |
| Color | : No data available | | |
| Odor | : No data available | | |
| Odor threshold | : No data available | | |
| рН | : No data available | | |
| Relative evaporation rate (butyl acetate=1 | .) : No data available | | |
| Melting point | : No data available | | |
| Freezing point | : No data available | | |
| Boiling point | : No data available | | |
| Flash point | : No data available | | |
| Auto-ignition Temperature | : Not available | | |
| Decomposition temperature | : No data available | | |
| Flammability (solid, gas) | : No data available | | |
| Vapor pressure | : No data available | | |
| Relative vapor density at 20 °C | : No data available | | |
| Relative density | : No data available | | |
| Specific Gravity | : No data available | | |
| Density | : >1g/cc | | |
| Solubility | : Water: Insoluble | | |
| Log Pow | : No data available | | |
| Log Kow | : No data available | | |
| Viscosity, kinematic | : No data available | | |
| Viscosity, dynamic | : No data available | | |
| Explosive properties | : None known. | | |
| Oxidizing properties | : None known. | | |
| Explosive limits | : No data available | | |
| | | | |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

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10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under conditions of fire this material may produce: Carbon dioxide (CO₂). Carbon monoxide. Barium oxides. Silicon oxides. Low molecular weight hydrocarbon fragments.

SECTION 11: Toxicological information

| SECTION 11: Toxicological information | | | | |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|--|--|--|
| 11.1. Information on toxicologica | | | | |
| Acute toxicity | : Not classified | | | |
| Silane, dichlorodimethyl-, reaction products with silica (68611-44-9) | | | | |
| LC50 inhalation rat (mg/l) | 0.477 mg/l/4h | | | |
| ATE (dust, mist) | 0.477 mg/l/4h | | | |
| Skin corrosion/irritation | : Causes skin irritation. | | | |
| Serious eye damage/irritation | : Causes serious eye irritation. | | | |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. | | | |
| Germ cell mutagenicity | : Not classified | | | |
| Carcinogenicity | : Not classified | | | |
| Silica, vitreous (60676-86-0) | | | | |
| IARC group | 3 | | | |
| Reproductive toxicity | : Not classified | | | |
| Specific target organ toxicity (single ex | | | | |
| Specific target organ toxicity (repeated | d exposure) : Not classified | | | |
| Aspiration hazard | : Not classified | | | |
| Symptoms/injuries after inhalation | : None expected under normal conditions of use. | | | |
| Symptoms/injuries after skin contact | : May cause skin irritation. May cause an allergic reaction. | | | |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. | | | |
| Symptoms/injuries after ingestion | : Ingestion is likely to be harmful or have adverse effects. | | | |
| Chronic symptoms | : May cause an allergic skin reaction. | | | |
| SECTION 12: Ecological inform | nation | | | |
| 12.1. Toxicity | | | | |
| No additional information available | | | | |
| 12.2. Persistence and degradability | ity | | | |
| No additional information available | | | | |
| 12.3. Bioaccumulative potential | | | | |
| No additional information available | | | | |
| 12.4. Mobility in soil | | | | |
| No additional information available | | | | |
| 12.5. Other adverse effects | | | | |
| No additional information available | | | | |
| SECTION 13: Disposal conside | rations | | | |
| 13.1. Waste treatment methods | | | | |
| Sewage disposal recommendations | : Do not dispose of waste into sewer. | | | |
| Waste disposal recommendations | : Dispose of waste material in accordance with all local, regional, national, | | | |
| | and international regulations. | | | |
| | | | | |

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SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Silica, vitreous (60676-86-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester (1565-94-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Poly(oxy-1,2-ethanediyl), .alpha.,.alpha.'-[(1-methylethylidene)di-4,1-phenylene]bis[.omega.-[(2-methyl-1-oxo-2propenyl)oxy]- (41637-38-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Propenoic acid, 2-methyl-, 1,6-hexanediyl ester (6606-59-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silane, dichlorodimethyl-, reaction products with silica (68611-44-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.3. US State regulations

Silica, vitreous (60676-86-0)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Revision date

: 02/12/2014

Other information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of H-phrases: see section 16:

| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 |
|-------------------------------------|------------------------------------------------------------------|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment - Chronic Hazard Category 4 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| Flam. Liq. Not classified | Flammable liquids Not classified |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H302 | Harmful if swallowed |

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| H312 | Harmful in contact with skin |
|------|--------------------------------------------------------|
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H320 | Causes eye irritation |
| H330 | Fatal if inhaled |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H413 | May cause long lasting harmful effects to aquatic life |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom 2012)

HENRY SCHEIN" -

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Revision date: 02/12/2014 Date of issue: 02/12/2014 Version: 1.0

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

: Composite Chemical Cure Catalyst

Product identifier 1.1.

Product form : Mixture : Chemical Cure Composite Catalyst Paste

- Product name
- Other means of identification

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

Use of the substance/mixture

: Construction of dental composites. This product is part of a two-component system. For use with base component. For professional dental use only.

Details of the supplier of the safety data sheet 1.3.

Company

Henry Schein, Inc. 135 Duryea Road Melville, NY 11747 Telephone: 1-800-424-9300

Emergency telephone number 1.4.

Emergency number : 800-424-9300 CHEMTREC; 1-703-527-3887 CHEMTREC - Outside USA

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

Classification (GHS-US) Skin Irrit. 2 H315 Eye Irrit. 2A H319 Skin Sens. 1 H317

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)

| | GHS07 |
|-----------------------------------|-------------------------------------------------------------------------------|
| Signal word (GHS-US) | : Warning |
| Hazard statements (GHS-US) | : H315 - Causes skin irritation |
| | H317 - May cause an allergic skin reaction |
| | H319 - Causes serious eye irritation |
| Precautionary statements (GHS-US) | : P261 - Avoid breathing dust. |
| | P264 - Wash hands and forearms thoroughly after handling. |
| | P272 - Contaminated work clothing should not be allowed out of the workplace. |
| | P280 - Wear eye protection, protective gloves, protective clothing. |
| | P302+P352 - IF ON SKIN: Wash with plenty of soap and water. |
| | P305+P351+P338 - If in eyes: Rinse cautiously with water for several |
| | minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | P321 - Specific treatment (see Section 4). |
| | P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. |
| | P337+P313 - If eye irritation persists: Get medical advice/attention. |
| | P362 - Take off contaminated clothing and wash before reuse. |
| | P501 - Dispose of contents/container according to local, regional, national, |
| | and international regulations. |
| | |

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification (GHS-US) |
|------------------------------------------|--------------------|-----------|-------------------------|
| 2-Propenoic acid, 2-methyl-, (1- | (CAS No) 1565-94-2 | 10 - 20 | Skin Irrit. 2, H315 |
| methylethylidene)bis[4,1-phenyleneoxy(2- | | | Eye Irrit. 2A, H319 |
| hydroxy-3,1-propanediyl)] ester | | | Skin Sens. 1, H317 |
| Dibenzoyl peroxide | (CAS No) 94-36-0 | 0.1 - 0.9 | Org. Perox. B, H241 |
| | | | Eye Irrit. 2A, H319 |
| | | | Skin Sens. 1, H317 |

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| First-aid measures general | : If medical advice is needed, have product container or label at hand. |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after inhalation | : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists. |
| First-aid measures after skin contact | Wash skin thoroughly with mild soap and water. Remove contaminated clothing. Obtain medical attention if irritation persists. |
| First-aid measures after eye contact | : Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention. |
| First-aid measures after ingestion | If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |
| 4.2. Most important symptoms | and effects, both acute and delayed |
| Symptoms/injuries | : Causes serious eye irritation. Causes skin irritation. Exposure may produce an allergic reaction. |
| Symptoms/injuries after inhalation | : None expected under normal conditions of use. |
| Symptoms/injuries after skin contact | : May cause skin irritation. May cause an allergic skin reaction. |
| Symptoms/injuries after eye contact | : May cause severe irritation. |
| Symptoms/injuries after ingestion | : Ingestion is likely to be harmful or have adverse effects. |
| eymptoms/mjanes arter mgestion | |

Chronic symptoms : May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures 5.1. **Extinguishing media** Suitable extinguishing media : Not flammable. Use extinguishing media appropriate for surrounding fire. Unsuitable extinguishing media : None known. 5.2. Special hazards arising from the substance or mixture : Under conditions of fire this material may produce: Silicon oxides. Oxides of Fire hazard aluminum. Low molecular weight hydrocarbon fragments. Carbon oxides $(CO, CO_2).$ Explosion hazard : Product is not explosive. : Stable at ambient temperature and under normal conditions of use. Reactivity 5.3. Advice for firefighters Precautionary measures fire : Not flammable.

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| Firefighting instructions | | s from fires or vapours from decomposition. All fire- |
|-----------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------|
| | fighting personnel mu | |
| Protection during firefighting | | I fire protective equipment. Use self-contained when fighting fire in an enclosed area. |
| SECTION 6: Accidental re | | |
| | , protective equipment and | emergency procedures |
| General measures | | n skin, or on clothing. Do not breathe dust. |
| 6.1.1. For non-emergency per | | |
| Protective equipment | | tive clothing, gloves and eye/face protection. Large |
| | | ided respiratory protection. |
| Emergency procedures | - | woid creating or spreading dust. Any vacuum used for |
| | - | upped with high-efficiency (HEPA) filter. |
| 6.1.2. For emergency respond | • | |
| Protective equipment | | tive clothing, gloves and eye/face protection. Large |
| | | ded respiratory protection. |
| Emergency procedures | : Contain and collect a | s any solid. Ventilate area. |
| 6.2. Environmental preca | utions | |
| Do not allow to enter drains or | water courses. | |
| 6.3. Methods and materia | I for containment and clean | ing up |
| For containment | : Contain and collect a | s any solid. |
| Methods for cleaning up | - | issociated with normal therapeutic use, collect spillage ed waste container for disposal. |
| 6.4. Reference to other se | | |
| See heading 8, Exposure Contro | Is and Personal Protection. | |
| SECTION 7: Handling and | storage | |
| 7.1. Precautions for safe h | | |
| Hygiene measures | • | e with good industrial hygiene and safety procedures. |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | nds immediately after handling this product, and once |
| | | the workplace. Do not eat, drink or smoke in areas |
| | where product is use | |
| 7.2. Conditions for safe st | orage, including any incomp | atibilities |
| Storage conditions | | ainer. Store in a dry, cool place. |
| Storage area | : Store away from heat | t. |
| Special rules on packaging | : Keep container close | d when not in use. |
| 7.3. Specific end use(s) | | |
| Construction of dental composi | tes. | |
| SECTION 8: Exposure con | trols/personal protectio | n |
| 8.1. Control parameters | | |
| Silica, amorphous, fumed, cryst | alline-free (112945-52-5) | |
| | PEL (TWA) (mg/m ³) | 6 mg/m ³ |
| USA OSHA OSHA | PEL (TWA) (ppm) | 20 mppcf (80mg/m ³ /%SiO ₂) |
| Aluminum oxide (1344-28-1) | | |
| | PEL (TWA) (mg/m³) | 5 mg/m ³ |
| | | |

Dibenzoyl peroxide (94-36-0)

| USA ACGIH | ACGIH TWA (mg/m³) | 5 mg/m³ |
|-----------|------------------------|---------|
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 5 mg/m³ |
| | | |

8.2. **Exposure controls**

Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas.

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|----------------------------------------------------------------|------------------------------------------------------------------------|
| Personal protective equipment | : Safety glasses. Gloves. |
| | |
| | |
| | |
| Hand protection | : Impermeable protective gloves. |
| Eye protection | : Safety glasses. |
| Skin and body protection | : Wear suitable protective clothing. |
| Respiratory protection | : In case of inadequate ventilation wear respiratory protection. |
| Environmental exposure controls | : Ensure adequate ventilation, especially in confined areas. |
| Consumer exposure controls | : Wear recommended personal protective equipment. Do not breathe dust. |
| SECTION 9: Physical and chem | |
| 9.1. Information on basic physic | |
| Physical state | : Solid |
| Appearance | : Paste. |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| рН | : No data available |
| Relative evaporation rate (butyl acetat | e=1) : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition Temperature | : Not available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Specific Gravity | : No data available |
| Density | : >1 g/cc |
| Solubility | : Water: Insoluble |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : None known. |
| Oxidizing properties | : None known. |
| Explosive limits | : No data available |
| • | |
| | |
| No additional information available | |

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

10.2. Chemical stability

Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

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10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under conditions of fire this material may produce: Carbon dioxide. Carbon monoxide. Silicon oxides. Oxides of aluminum. Low molecular weight hydrocarbon fragments.

| SECTION 11: Toxicological info | brmation |
|-------------------------------------------|-------------------------------------------------------------------|
| 11.1. Information on toxicologica | l effects |
| Acute toxicity | : Not classified |
| Aluminum oxide (1344-28-1) | |
| LD50 oral rat | > 15900 mg/kg |
| LC50 inhalation rat (mg/l) | > 2.3 mg/l/4h |
| Silane, dichlorodimethyl-, reaction pro | |
| LC50 inhalation rat (mg/l) | 0.477 mg/l/4h |
| ATE (dust, mist) | 0.477 mg/l/4h |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Silica, vitreous (60676-86-0) | |
| IARC group | 3 |
| Silica, amorphous, fumed, crystalline- | free (112945-52-5) |
| IARC group | 3 |
| Dibenzoyl peroxide (94-36-0) | |
| IARC group | 3 |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single ex | posure) : Not classified |
| Specific target organ toxicity (repeated | l exposure) : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/injuries after inhalation | : None expected under normal conditions of use. |
| Symptoms/injuries after skin contact | : May cause skin irritation. May cause an allergic skin reaction. |
| Symptoms/injuries after eye contact | : May cause severe irritation. |
| Symptoms/injuries after ingestion | : Ingestion is likely to be harmful or have adverse effects. |
| Chronic symptoms | : May cause an allergic skin reaction. |
| SECTION 12: Ecological inform | ation |

12.1. Toxicity

| Aluminum oxide (1344-28-1) | | |
|----------------------------|-----------|--|
| LC50 fish 1 | 14.6 mg/l | |
| EC50 Daphnia 1 | 38.2 mg/l | |
| NOEC (acute) | > 50 mg/l | |

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

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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. Waste treatment methods

: Do not dispose of waste into sewer.

Sewage disposal recommendations Waste disposal recommendations

: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not applicable

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester (1565-94-2) Listed on the United States TSCA (Toxic Substances Control Act) inventory

1.0 % (fibrous forms)

1.0 %

Silica, vitreous (60676-86-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Aluminum oxide (1344-28-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting

Dibenzoyl peroxide (94-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting

Silane, dichlorodimethyl-, reaction products with silica (68611-44-9) Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.3. US State regulations

Silica, vitreous (60676-86-0)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

Aluminum oxide (1344-28-1)

U.S. - Massachusetts - Right To Know List

U.S. - Massachusetts - Toxics Use Reduction Act

U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances

U.S. - New Jersey - Environmental Hazardous Substances List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

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| U.S Pennsylvania - RTK (Right to Know) List |
|-----------------------------------------------------------------------------------------------------------------|
| Dibenzoyl peroxide (94-36-0) |
| U.S Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1 |
| U.S Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2 |
| U.S Massachusetts - Oil & Hazardous Material List - Reportable Quantity |
| U.S Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1 |
| U.S Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2 |
| U.S Massachusetts - Right To Know List |
| U.S Massachusetts - Toxics Use Reduction Act |
| U.S New Jersey - Discharge Prevention - List of Hazardous Substances |
| U.S New Jersey - Environmental Hazardous Substances List |
| U.S New Jersey - Right to Know Hazardous Substance List |
| U.S New Jersey - Special Health Hazards Substances List |
| U.S New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS) |

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Revision date

Other information

: 02/12/2014

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of H-phrases: see section 16:

| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A | |
|---------------|-----------------------------------------------|--|
| Org. Perox. B | Organic Peroxide Category B | |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 | |
| Skin Sens. 1 | Skin sensitization Category 1 | |
| H241 | Heating may cause a fire or explosion | |
| H315 | Causes skin irritation | |
| H317 | May cause an allergic skin reaction | |
| H319 | Causes serious eye irritation | |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom 2012)