

# SAFETY DATA SHEET

Issuing Date 24-May-2015

Revision Date 03-Feb-2017

Revision Number 1

This document complies with the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name UVHP-100

### Other means of identification

Product Code(s) 400270

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use UV Cure Hole Plug Paste

Uses advised against No information available

### Supplier's details

Initial Supplier  
Canadian address required

Supplier Address  
Taiyo America, Inc.  
2675 Antler Drive  
Carson City, NV 89701  
TEL: 775-885-9959

### Emergency telephone number

Emergency Telephone Number 775-885-9959

## 2. HAZARDS IDENTIFICATION

### Classification

This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico's NMX-R-019-SC-2011.

|                                   |            |
|-----------------------------------|------------|
| Acute Oral Toxicity               | Category 4 |
| Skin Corrosion/Irritation         | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |
| Skin Sensitization                | Category 1 |

### Label Elements

#### Warning

**Hazard Statements**

Harmful if swallowed  
Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction

**Physical and Health Hazards Not Otherwise Classified**

Not applicable.

**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.

**General Advice**

- Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

- 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 advice/attention.

**Skin**

- IF ON SKIN: Wash with plenty of soap and water.
- Take off contaminated clothing and wash before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- Rinse mouth.

**Storage**

- None

**Disposal**

- Dispose of contents/container to an approved waste disposal plant.

**Other information**

22.53% of the mixture consists of ingredient(s) of unknown toxicity.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                  | CAS-No     | Weight % | Hazardous Material<br>Information Review Act<br>registry number (HMIRA<br>registry #) | Date HMIRA filed and<br>date exemption granted<br>(if applicable) |
|--------------------------------|------------|----------|---|---|
| Quartz                         | 14808-60-7 | 44.8     | -   | -   |
| Trimethylolpropane triacrylate | 15625-89-5 | 15.63    | -   | -   |
| 2-Hydroxyethyl methacrylate    | 868-77-9   | 11.13    | -   | -   |

|  |             |     |   |   |
|--|-------------|-----|---|---|
| Silicon dioxide                        | 7631-86-9   | 2.6 | - | - |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 1-5 | - | - |

#### 4. FIRST AID MEASURES

##### Description of necessary first-aid measures

|                                   |   |
|-----------------------------------|---|
| <b>General Advice</b>             | Immediate medical attention is required. If symptoms persist, call a physician.   |
| <b>Eye Contact</b>                | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. |
| <b>Skin Contact</b>               | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.  |
| <b>Inhalation</b>                 | Move to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.  |
| <b>Ingestion</b>                  | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.  |
| <b>Protection of First-aiders</b> | Use personal protective equipment. Avoid contact with skin, eyes and clothing.  |

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

**Most Important Symptoms/Effects** May cause allergic skin reaction. Itching. Rashes. Skin irritation. Eye irritation/reactions.

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

**Notes to Physician** Treat symptomatically. May cause sensitization of susceptible persons.

#### 5. FIRE-FIGHTING MEASURES

|   |  |
|---|--|
| <b><u>Suitable Extinguishing Media</u></b>                          | Water spray. Foam. Dry powder.   |
| <b><u>Unsuitable Extinguishing Media</u></b>                        | No information available.  |
| <b><u>Specific Hazards Arising from the Chemical</u></b>            | May cause sensitization by skin contact. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. |
| <b>Explosion Data</b>   |  |
| <b>Sensitivity to Mechanical Impact</b>                             | None.  |
| <b>Sensitivity to Static Discharge</b>                              | None.  |
| <b><u>Protective Equipment and Precautions for Firefighters</u></b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.   |

#### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal Precautions** Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

##### Environmental Precautions

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

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

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so.   |
| <b>Methods for Cleaning Up</b> | Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                 |   |
|-----------------|---|
| <b>Handling</b> | Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. |
|-----------------|---|

### Conditions for safe storage, including any incompatibilities

|                              |  |
|------------------------------|--|
| <b>Storage</b>               | Keep in properly labeled containers. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. |
| <b>Incompatible Products</b> | Oxidizing agents. Peroxides. Free radical initiators   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name   | ACGIH TLV  | OSHA PEL   | NIOSH IDLH  |
|---|--|--|---|
| Quartz<br>14808-60-7                                  | TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter | TWA: 50 µg/m <sup>3</sup><br>Action Level: 25 µg/m <sup>3</sup><br>(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust<br>: (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction<br>: (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction | IDLH: 50 mg/m <sup>3</sup> respirable dust<br>TWA: 0.05 mg/m <sup>3</sup> respirable dust |
| Silica, amorphous, fumed, crystal-free<br>112945-52-5 | 10 mg/m <sup>3</sup>                                       | TWA: 20 mppcf; ((80)/(% SiO <sub>2</sub> )) mg/m <sup>3</sup>  | IDLH: 3000 mg/m <sup>3</sup><br>TWA: 6 mg/m <sup>3</sup>                                  |
| Silicon dioxide<br>7631-86-9                          | 10 mg/m <sup>3</sup>                                       | 20 mppcf TWA; ((80)/(% SiO <sub>2</sub> )) mg/m <sup>3</sup>   | IDLH: 3000 mg/m <sup>3</sup><br>TWA: 6 mg/m <sup>3</sup>                                  |

*Immediately Dangerous to Life or Health. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH:*

|                                  |   |
|----------------------------------|---|
| <b>Other Exposure Guidelines</b> | Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). |
|----------------------------------|---|

### Appropriate engineering controls

|                             |  |
|-----------------------------|--|
| <b>Engineering Measures</b> | Showers<br>Eyewash stations<br>Ventilation systems |
|-----------------------------|--|

### Individual protection measures, such as personal protective equipment

|                                 |   |
|---------------------------------|---|
| <b>Eye/Face Protection</b>      | Goggles.  |
| <b>Skin and Body Protection</b> | Protective gloves. Lightweight protective clothing.   |
| <b>Respiratory Protection</b>   | If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.   |
| <b>Hygiene Measures</b>         | When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                       |                 |                       |                           |
|-----------------------|-----------------|-----------------------|---------------------------|
| <b>Physical State</b> | Viscous liquid. | <b>Appearance</b>     | Green.                    |
| <b>Odor</b>           | Slight Solvent. | <b>Odor Threshold</b> | No information available. |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks/ - Method</u> |
|--|-------------------|--------------------------|
| pH                                     | No data available | None known               |
| Melting Point/Range                    | No data available | None known               |
| Boiling Point/Boiling Range            | No data available | None known               |
| Flash Point                            | >200 °C / >392 °F | None known               |
| Evaporation rate                       | No data available | None known               |
| Flammability (solid, gas)              | No data available | None known               |
| Flammability Limits in Air             |                   |                          |
| upper flammability limit               | No data available |                          |
| lower flammability limit               | No data available |                          |
| Vapor Pressure                         | No data available | None known               |
| Vapor Density                          | No data available | None known               |
| Specific Gravity                       | No data available | None known               |
| Water Solubility                       | No data available | None known               |
| Solubility in other solvents           | No data available | None known               |
| Partition coefficient: n-octanol/water | No data available | None known               |
| Autoignition Temperature               | No data available | None known               |
| Decomposition Temperature              | No data available | None known               |
| Viscosity                              | No data available | None known               |

**Flammable Properties** Combustible material: may burn but does not ignite readily

**Explosive Properties** No data available

**Oxidizing Properties** No data available

**Other information**

**VOC Content (%)** 0

**10. STABILITY AND REACTIVITY**

**Reactivity** No data available.

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Conditions to avoid** Incompatible products.

**Incompatible materials** Oxidizing agents. Peroxides. Free radical initiators

**Hazardous decomposition products** Carbon oxides. Thermal decomposition can lead to release of irritating gases and vapors.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | There is no data available for this product.              |
| <b>Eye Contact</b>  | Causes serious eye irritation.                            |
| <b>Skin Contact</b> | Causes skin irritation. May cause allergic skin reaction. |
| <b>Ingestion</b>    | Harmful if swallowed.                                     |

**Numerical measures of toxicity - Product**

**Unknown acute toxicity** 22.53% of the mixture consists of ingredient(s) of unknown toxicity.

*The following values are calculated based on chapter 3.1 of the GHS document:*

**LD50 Oral** 809 mg/kg; Acute toxicity estimate

**LD50 Dermal** 24782 mg/kg; Acute toxicity estimate mg/L

| Chemical Name                          | LD50 Oral            | LD50 Dermal             | LC50 Inhalation       |
|--|----------------------|-------------------------|-----------------------|
| Quartz                                 | = 500 mg/kg ( Rat )  | -                       | -                     |
| Trimethylolpropane triacrylate         | > 5000 mg/kg ( Rat ) | = 5000 mg/kg ( Rabbit ) | -                     |
| 2-Hydroxyethyl methacrylate            | = 5050 mg/kg ( Rat ) | >3000 mg/kg ( Rabbit )  | -                     |
| Silica, amorphous, fumed, crystal-free | = 3160 mg/kg ( Rat ) | -                       | -                     |
| Silicon dioxide                        | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | >2.2 mg/L ( Rat ) 4 h |

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

**Symptoms** No information available.

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

**Respiratory or Skin Sensitization** May cause sensitization of susceptible persons. May cause sensitization by skin contact.

**Germ Cell Mutagenicity** No information available.

**Carcinogenicity** This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

| Chemical Name                          | ACGIH | IARC    | NTP   | OSHA |
|--|-------|---------|-------|------|
| Quartz                                 | A2    | Group 1 | Known | X    |
| Silicon dioxide                        |       | Group 3 |       |      |
| Silica, amorphous, fumed, crystal-free |       | Group 3 |       |      |

#### ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

#### IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to its Carcinogenicity to Humans

#### NTP: (National Toxicity Program)

Known - Known Carcinogen

#### OSHA: (Occupational Safety & Health Administration)

X - Present

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons.

**Target Organ Effects** Respiratory system. Eyes. Lungs.

**Aspiration Hazard** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name                           | Toxicity to Algae | Toxicity to Fish  | Toxicity to Microorganisms | Daphnia Magna (Water Flea) |
|---|-------------------|---|----------------------------|----------------------------|
| 2-Hydroxyethyl methacrylate<br>868-77-9 |                   | LC50 96 h: 213 - 242 mg/L<br>flow-through (Pimephales<br>promelas) LC50 96 h: = 227<br>mg/L (Pimephales |                            |                            |

|   |  |  |  |  |
|---|--|--|--|--|
|   |  | promelas)  |  |  |
| Silica, amorphous, fumed, crystal-free<br>112945-52-5 | EC50 72 h: = 440 mg/L<br>(Pseudokirchneriella subcapitata) | LC50 96 h: = 5000 mg/L<br>static (Brachydanio rerio) |  | EC50 48 h: = 7600 mg/L<br>(Ceriodaphnia dubia) |
| Silicon dioxide<br>7631-86-9                          | EC50 72 h: = 440 mg/L<br>(Pseudokirchneriella subcapitata) | LC50 96 h: = 5000 mg/L<br>static (Brachydanio rerio) |  | EC50 48 h: = 7600 mg/L<br>(Ceriodaphnia dubia) |

**Persistence and Degradability** No information available.

#### Bioaccumulation

| Chemical Name               | Log Pow |
|-----------------------------|---------|
| 2-Hydroxyethyl methacrylate | 0.47    |

**Mobility** No information available.

**Other Adverse Effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with local regulations.

**Contaminated Packaging** Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

### 15. REGULATORY INFORMATION

#### International Regulations

**Ozone depleting substances** Not applicable

**Persistent Organic Pollutants** Not applicable

**Hazardous Waste** Not applicable

**The Rotterdam Convention (Prior Informed Consent)** Not applicable

**International Convention for the Prevention of Pollution from Ships (MARPOL)** Not applicable

#### International Inventories

**TSCA** Complies

**DSL** Not determined

**EINECS** Complies

**ELINCS** Complies

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

#### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No     | California Prop. 65 |
|---------------|------------|---------------------|
| Quartz        | 14808-60-7 | Carcinogen          |

**U.S. State Right-to-Know Regulations**

"X" designates that the ingredients are listed on the state right to know list.

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|---------------|------------|---------------|--------------|----------|--------------|
| Quartz        | X          | X             | X            | -        | X            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

**NFPA** Health Hazard 2 Flammability 1 Instability 0 Physical and Chemical Hazards -

**HMIS** Health Hazard 2 Flammability 1 Physical Hazard 0 Personal Protection X

Prepared By Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

Issuing Date 24-May-2015  
Revision Date 03-Feb-2017  
Revision Note Update to Format.

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**