



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** RTV Silicone Sealant - Clear (cartridge)

**Other means of identification**

**Product code** 14073

**Recommended use** Sealant and adhesive

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufactured or sold by:**

**Company name** CRC Industries, Inc.  
**Address** 885 Louis Dr.  
Warminster, PA 18974 US

**Telephone**

**General Information** 215-674-4300

**Technical Assistance** 800-521-3168

**Customer Service** 800-272-4620

**24-Hour Emergency** 800-424-9300 (US)

**(CHEMTREC)** 703-527-3887 (International)

**Website** www.crcindustries.com

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2B

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3  
Hazardous to the aquatic environment, long-term hazard Category 3

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Warning

**Hazard statement** Causes skin irritation. Causes eye irritation.

**Precautionary statement**

**Prevention** Wear protective gloves. Wash hands thoroughly after handling. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area.

**Response** If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. 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.

**Storage** Keep container tightly closed. Store in a dry place.

**Disposal** Dispose of contents/container in accordance with local/regional/national regulations.

**Hazard(s) not otherwise classified (HNOC)** Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Supplemental information**

97.17% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 97.17% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. When exposed to water or humid air, product evolves acetic acid (HOAc). When heated to temperature above 300°F/150°C in the presence of air, product may form formaldehyde vapors.

### 3. Composition/information on ingredients

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#### Mixtures

| Chemical name                                | Common name and synonyms | CAS number | %      |
|--|--------------------------|------------|--------|
| Polydimethylsiloxane, hydroxy-terminated     |                          | 70131-67-8 | >= 70  |
| Amorphous silica                             |                          | 7631-86-9  | 7 - 13 |
| Distillates (petroleum), Hydrotreated Middle |                          | 64742-46-7 | 5 - 10 |
| Ethyltriacetoxysilane                        |                          | 17689-77-9 | 1 - 5  |
| Methyltriacetoxysilane                       |                          | 4253-34-3  | 1 - 5  |
| Polydimethylsiloxane                         |                          | 63148-62-9 | 1 - 5  |

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

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|   |   |
|---|---|
| <b>Inhalation</b>   | Move to fresh air. Get medical attention immediately.   |
| <b>Skin contact</b>   | Remove contaminated clothing immediately and wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.          |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Irritation of eyes and mucous membranes.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically.  |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.   |

### 5. Fire-fighting measures

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|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Large Fires: Dry chemical, water spray or regular foam.<br>Small Fires: Dry chemical, CO2, or water spray.   |
| <b>Unsuitable extinguishing media</b>                                | Water.   |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed. When heated to temperature above 300°F/150°C in the presence of air, product may form formaldehyde vapors. When exposed to water or humid air, product evolves acetic acid (HOAc). |
| <b>Special protective equipment and precautions for firefighters</b> | Wear self-contained breathing apparatus and protective clothing.   |
| <b>Fire-fighting equipment/instructions</b>                          | Cool containers exposed to heat with water spray and remove container, if no risk is involved.   |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.  |

### 6. Accidental release measures

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|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. |
| <b>Methods and materials for containment and cleaning up</b>               | Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Collect spillage. Shovel up and place in a container for salvage or disposal. Prevent entry into waterways, sewer, basements or confined areas. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.  |
| <b>Environmental precautions</b>   | Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.  |

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapor. Avoid contact with skin. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components  | Type | Value               | Form  |
|---|------|---------------------|-------|
| Distillates (petroleum), Hydrotreated Middle (CAS 64742-46-7) | PEL  | 5 mg/m <sup>3</sup> | Mist. |

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components                       | Type | Value  |
|----------------------------------|------|--|
| Amorphous silica (CAS 7631-86-9) | TWA  | 0.8 mg/m <sup>3</sup><br><br>20 millions of particle |

#### US. ACGIH Threshold Limit Values

| Components  | Type | Value               | Form                |
|---|------|---------------------|---------------------|
| Distillates (petroleum), Hydrotreated Middle (CAS 64742-46-7) | TWA  | 5 mg/m <sup>3</sup> | Inhalable fraction. |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components  | Type | Value                | Form  |
|---|------|----------------------|-------|
| Amorphous silica (CAS 7631-86-9)                              | TWA  | 6 mg/m <sup>3</sup>  |       |
| Distillates (petroleum), Hydrotreated Middle (CAS 64742-46-7) | STEL | 10 mg/m <sup>3</sup> | Mist. |
|   | TWA  | 5 mg/m <sup>3</sup>  | Mist. |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

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

**Eyeface protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Butyl rubber.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Air monitoring is needed to determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

**Physical state** Solid.  
**Form** Paste.  
**Color** Translucent.

**Odor** Acetic acid.

**Odor threshold** Not available.

**pH** Not available.

|   |                                    |
|---|------------------------------------|
| <b>Melting point/freezing point</b>                 | Not available.                     |
| <b>Initial boiling point and boiling range</b>      | 680 °F (360 °C) estimated          |
| <b>Flash point</b>                                  | > 212 °F (> 100 °C) Tag Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                     |
| <b>Flammability (solid, gas)</b>                    | Not available.                     |
| <b>Upper/lower flammability or explosive limits</b> |                                    |
| <b>Flammability limit - lower (%)</b>               | Not available.                     |
| <b>Flammability limit - upper (%)</b>               | Not available.                     |
| <b>Vapor pressure</b>                               | 4.2 hPa estimated                  |
| <b>Vapor density</b>                                | Not available.                     |
| <b>Relative density</b>                             | 1.01                               |
| <b>Solubility (water)</b>                           | Not available.                     |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                     |
| <b>Auto-ignition temperature</b>                    | 500 °F (260 °C) estimated          |
| <b>Decomposition temperature</b>                    | Not available.                     |
| <b>Viscosity (kinematic)</b>                        | Not available.                     |
| <b>Percent volatile</b>                             | < 3 %                              |

## 10. Stability and reactivity

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|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Heat, flames and sparks. Contact with incompatible materials. When exposed to water or humid air, product evolves acetic acid (HOAc). When heated to temperature above 300°F/150°C in the presence of air, product may form formaldehyde vapors. |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Moist air. Water, moisture.   |
| <b>Hazardous decomposition products</b>   | Carbon oxides. Traces of incompletely burned carbon compounds. Silicone dioxide. Formaldehyde. Metal oxides. Nitrogen oxides (NOx). Sulfur oxides. Chlorine compounds.   |

## 11. Toxicological information

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### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.   |
| <b>Inhalation</b>   | Inhalation of fumes may result in metal fume fever, a flu-like illness with symptoms of metallic taste, fever and chills, aches, chest tightness, and cough. |
| <b>Skin contact</b> | Causes skin irritation.  |
| <b>Eye contact</b>  | Causes eye irritation.   |

**Symptoms related to the physical, chemical and toxicological characteristics** Irritant effects.

### Information on toxicological effects

|  |  |
|--|--|
| <b>Acute toxicity</b>                    | Not available.   |
| <b>Skin corrosion/irritation</b>         | Causes skin irritation.  |
| <b>Serious eye damage/eye irritation</b> | Causes eye irritation.   |
| <b>Respiratory sensitization</b>         | Not available.   |
| <b>Skin sensitization</b>                | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>            | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                   | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

|   |   |
|---|---|
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.                             |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.                             |
| <b>Aspiration hazard</b>                                  | Not likely, due to the form of the product. |

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

| Product                                  | Species | Test Results  |
|--|---------|---|
| RTV Silicone Sealant - Clear (cartridge) |         |   |
| Fish                                     | LC50    | 505.7946 mg/l, 96 hours estimated   |
| Components                               | Species | Test Results  |
| Polydimethylsiloxane (CAS 63148-62-9)    |         |   |
| Aquatic                                  |         |   |
| Fish                                     | LC50    | Channel catfish ( <i>Ictalurus punctatus</i> ) 2.36 - 4.15 mg/l, 96 hours |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal of waste from residues / unused products** This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.

**Hazardous waste code** Not regulated.

**Contaminated packaging** Not available.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### SARA 304 Emergency release notification

Not regulated.

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

|  |   |
|--|---|
| <b>Safe Drinking Water Act (SDWA)</b>                              | Not regulated.  |
| <b>Food and Drug Administration (FDA)</b>                          | Not regulated.  |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b> |   |
| <b>Section 311/312</b>   | Immediate Hazard - Yes  |
| <b>Hazard categories</b>   | Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No |
| <b>SARA 302 Extremely hazardous substance</b>                      | No  |

#### US state regulations

##### US. New Jersey RTK - Substances: Listed substance

Amorphous silica (CAS 7631-86-9)

##### US. Massachusetts RTK - Substance List

Amorphous silica (CAS 7631-86-9)

##### US. Pennsylvania RTK - Hazardous Substances

Amorphous silica (CAS 7631-86-9)

Distillates (petroleum), Hydrotreated Middle (CAS 64742-46-7)

##### US. Rhode Island RTK

None.

##### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### Volatile organic compounds (VOC) regulations

##### EPA

**VOC content (40 CFR 51.100(s))** < 3 %

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

##### State

**Consumer products** This product is regulated as a Sealant and Caulking Compound (chemically curing, non-aerosol). This product is compliant for use in all 50 states.

**VOC content (CA)** < 3 %

**VOC content (OTC)** < 3 %

#### International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

|                      |             |
|----------------------|-------------|
| <b>Issue date</b>    | 07-30-2013  |
| <b>Revision date</b> | 01-10-2014  |
| <b>Prepared by</b>   | Allison Cho |
| <b>Version #</b>     | 02          |

**Further information**

Not available.

**HMIS® ratings**

Health: 1  
Flammability: 1  
Physical hazard: 0  
Personal protection: B

**NFPA ratings**

Health: 1  
Flammability: 1  
Instability: 0

**Disclaimer**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.



# SAFETY DATA SHEET

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**Other means of identification**

**Product code** 14073

**Recommended use** Sealant and adhesive

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufactured or sold by:**

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**Telephone**

**General Information** 215-674-4300

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**(CHEMTREC)** 703-527-3887 (International)

**Website** www.crcindustries.com

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2B

**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3  
Hazardous to the aquatic environment, long-term hazard Category 3

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Warning

**Hazard statement** Causes skin irritation. Causes eye irritation.

**Precautionary statement**

**Prevention**

Wear protective gloves. Wash hands thoroughly after handling. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area.

**Response**

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. 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.

**Storage**

Keep container tightly closed. Store in a dry place.

**Disposal**

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

**Hazard(s) not otherwise classified (HNOC)**

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Supplemental information**

97.17% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 97.17% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

When exposed to water or humid air, product evolves acetic acid (HOAc). When heated to temperature above 300°F/150°C in the presence of air, product may form formaldehyde vapors.



### 3. Composition/information on ingredients

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#### Mixtures

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|--|--------------------------|------------|--------|
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| Ethyltriacetoxysilane                        |                          | 17689-77-9 | 1 - 5  |
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| Polydimethylsiloxane                         |                          | 63148-62-9 | 1 - 5  |

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### 4. First-aid measures

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|   |   |
|---|---|
| <b>Inhalation</b>   | Move to fresh air. Get medical attention immediately.   |
| <b>Skin contact</b>   | Remove contaminated clothing immediately and wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.          |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Irritation of eyes and mucous membranes.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically.  |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.   |

### 5. Fire-fighting measures

---

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Large Fires: Dry chemical, water spray or regular foam.<br>Small Fires: Dry chemical, CO2, or water spray.   |
| <b>Unsuitable extinguishing media</b>                                | Water.   |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed. When heated to temperature above 300°F/150°C in the presence of air, product may form formaldehyde vapors. When exposed to water or humid air, product evolves acetic acid (HOAc). |
| <b>Special protective equipment and precautions for firefighters</b> | Wear self-contained breathing apparatus and protective clothing.   |
| <b>Fire-fighting equipment/instructions</b>                          | Cool containers exposed to heat with water spray and remove container, if no risk is involved.   |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.  |

### 6. Accidental release measures

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|  |   |
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| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. |
| <b>Methods and materials for containment and cleaning up</b>               | Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Collect spillage. Shovel up and place in a container for salvage or disposal. Prevent entry into waterways, sewer, basements or confined areas. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.  |
| <b>Environmental precautions</b>   | Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.  |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapor. Avoid contact with skin. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices. For product usage instructions, please see the product label. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials.   |

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components  | Type | Value               | Form  |
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| Components                       | Type | Value  |
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| Components  | Type | Value               | Form                |
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| Components  | Type | Value                | Form  |
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|   | TWA  | 5 mg/m <sup>3</sup>  | Mist. |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

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

**Eyeface protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear protective gloves such as: Nitrile. Butyl rubber.

#### Other

Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Air monitoring is needed to determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

|                       |              |
|-----------------------|--------------|
| <b>Physical state</b> | Solid.       |
| <b>Form</b>           | Paste.       |
| <b>Color</b>          | Translucent. |

**Odor** Acetic acid.

**Odor threshold** Not available.

**pH** Not available.

|   |                                    |
|---|------------------------------------|
| <b>Melting point/freezing point</b>                 | Not available.                     |
| <b>Initial boiling point and boiling range</b>      | 680 °F (360 °C) estimated          |
| <b>Flash point</b>                                  | > 212 °F (> 100 °C) Tag Closed Cup |
| <b>Evaporation rate</b>                             | Not available.                     |
| <b>Flammability (solid, gas)</b>                    | Not available.                     |
| <b>Upper/lower flammability or explosive limits</b> |                                    |
| <b>Flammability limit - lower (%)</b>               | Not available.                     |
| <b>Flammability limit - upper (%)</b>               | Not available.                     |
| <b>Vapor pressure</b>                               | 4.2 hPa estimated                  |
| <b>Vapor density</b>                                | Not available.                     |
| <b>Relative density</b>                             | 1.01                               |
| <b>Solubility (water)</b>                           | Not available.                     |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                     |
| <b>Auto-ignition temperature</b>                    | 500 °F (260 °C) estimated          |
| <b>Decomposition temperature</b>                    | Not available.                     |
| <b>Viscosity (kinematic)</b>                        | Not available.                     |
| <b>Percent volatile</b>                             | < 3 %                              |

## 10. Stability and reactivity

---

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Heat, flames and sparks. Contact with incompatible materials. When exposed to water or humid air, product evolves acetic acid (HOAc). When heated to temperature above 300°F/150°C in the presence of air, product may form formaldehyde vapors. |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Moist air. Water, moisture.   |
| <b>Hazardous decomposition products</b>   | Carbon oxides. Traces of incompletely burned carbon compounds. Silicone dioxide. Formaldehyde. Metal oxides. Nitrogen oxides (NOx). Sulfur oxides. Chlorine compounds.   |

## 11. Toxicological information

---

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.   |
| <b>Inhalation</b>   | Inhalation of fumes may result in metal fume fever, a flu-like illness with symptoms of metallic taste, fever and chills, aches, chest tightness, and cough. |
| <b>Skin contact</b> | Causes skin irritation.  |
| <b>Eye contact</b>  | Causes eye irritation.   |

**Symptoms related to the physical, chemical and toxicological characteristics** Irritant effects.

### Information on toxicological effects

|  |  |
|--|--|
| <b>Acute toxicity</b>                    | Not available.   |
| <b>Skin corrosion/irritation</b>         | Causes skin irritation.  |
| <b>Serious eye damage/eye irritation</b> | Causes eye irritation.   |
| <b>Respiratory sensitization</b>         | Not available.   |
| <b>Skin sensitization</b>                | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>            | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>                   | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

|   |   |
|---|---|
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.                             |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.                             |
| <b>Aspiration hazard</b>                                  | Not likely, due to the form of the product. |

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

| Product                                  | Species | Test Results  |
|--|---------|---|
| RTV Silicone Sealant - Clear (cartridge) |         |   |
| Fish                                     | LC50    | 505.7946 mg/l, 96 hours estimated   |
| Components                               | Species | Test Results  |
| Polydimethylsiloxane (CAS 63148-62-9)    |         |   |
| Aquatic                                  |         |   |
| Fish                                     | LC50    | Channel catfish ( <i>Ictalurus punctatus</i> ) 2.36 - 4.15 mg/l, 96 hours |

|                                      |   |
|--------------------------------------|---|
| <b>Persistence and degradability</b> | No data is available on the degradability of this product.  |
| <b>Bioaccumulative potential</b>     | No data available.  |
| <b>Mobility in soil</b>              | No data available.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

## 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal of waste from residues / unused products</b> | This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations. |
| <b>Hazardous waste code</b>                              | Not regulated.   |
| <b>Contaminated packaging</b>                            | Not available.   |

## 14. Transport information

|             |                                   |
|-------------|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b> | Not regulated as dangerous goods. |
| <b>IMDG</b> | Not regulated as dangerous goods. |

## 15. Regulatory information

|   |   |
|---|---|
| <b>US federal regulations</b>   | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>                    | Not regulated.  |
| <b>SARA 304 Emergency release notification</b>  | Not regulated.  |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>               | Not listed.   |
| <b>US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance</b>         | Not listed.   |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                                   | Not listed.   |
| <b>CERCLA Hazardous Substances: Reportable quantity</b>                                 | Not listed.   |
|   | Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee. |
| <b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>             | Not regulated.  |
| <b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b> | Not regulated.  |

|  |   |
|--|---|
| <b>Safe Drinking Water Act (SDWA)</b>                              | Not regulated.  |
| <b>Food and Drug Administration (FDA)</b>                          | Not regulated.  |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b> |   |
| <b>Section 311/312</b>   | Immediate Hazard - Yes  |
| <b>Hazard categories</b>   | Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No |
| <b>SARA 302 Extremely hazardous substance</b>                      | No  |

#### US state regulations

##### US. New Jersey RTK - Substances: Listed substance

Amorphous silica (CAS 7631-86-9)

##### US. Massachusetts RTK - Substance List

Amorphous silica (CAS 7631-86-9)

##### US. Pennsylvania RTK - Hazardous Substances

Amorphous silica (CAS 7631-86-9)

Distillates (petroleum), Hydrotreated Middle (CAS 64742-46-7)

##### US. Rhode Island RTK

None.

##### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### Volatile organic compounds (VOC) regulations

##### EPA

**VOC content (40 CFR 51.100(s))** < 3 %

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

##### State

**Consumer products** This product is regulated as a Sealant and Caulking Compound (chemically curing, non-aerosol). This product is compliant for use in all 50 states.

**VOC content (CA)** < 3 %

**VOC content (OTC)** < 3 %

#### International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

|                      |             |
|----------------------|-------------|
| <b>Issue date</b>    | 07-30-2013  |
| <b>Revision date</b> | 01-10-2014  |
| <b>Prepared by</b>   | Allison Cho |
| <b>Version #</b>     | 02          |

**Further information**

Not available.

**HMIS® ratings**

Health: 1  
Flammability: 1  
Physical hazard: 0  
Personal protection: B

**NFPA ratings**

Health: 1  
Flammability: 1  
Instability: 0

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