



# Safety Data Sheet acc. to OSHA HCS

Printing date 04/15/2019

Reviewed on 04/15/2019

## 1 Identification

- Product identifier
  - Trade name: **Kwik-Sil Clear B**
  - Recommended use: *Silicone Curing Agent*
  - Restrictions on use: *For industrial use only*
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:  
World Precision Instruments, LLC  
175 Sarasota Center Boulevard, Sarasota, FL 34240  
P: (941) 371-1003 · F: (941) 377-5428  
[www.wpiinc.com](http://www.wpiinc.com)
  - Emergency Telephone Number:  
1-941-371-1003

## 2 Hazard(s) identification

- Classification of the substance or mixture  
*Repr. 2 H361 Suspected of damaging fertility or the unborn child.*
- Label elements
  - GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms



GHS08

- Signal word **Warning**
- Hazard statements  
*H361 Suspected of damaging fertility or the unborn child.*
- Precautionary statements  
*Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.*
- Classification system:
  - NFPA System
    - NFPA ratings (scale 0 - 4)



Health = 0  
Fire = 1  
Reactivity = 0

NFPA special hazards (water reactivity and oxidizing property): None

- HMIS System
  - HMIS-ratings (scale 0 - 4)



Health = 0  
Fire = 1  
Reactivity = 0

- Other hazards
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

## 3 Composition/information on ingredients

- Chemical characterization: **Mixtures**

- Dangerous components:

CAS: 556-67-2 EINECS: 209-136-7 Index number: 014-018-00-1 RTECS: GZ 4397000	Octamethylcyclotetrasiloxane	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 4, H413	0.1-1%
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- Additional information:

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

## 4 First-aid measures

- Description of first aid measures
  - After inhalation: Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.

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- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin rash or irritation occurs, seek medical advice.  
Remove all contaminated clothing and wash before reuse.
  - **After eye contact:**  
Rinse opened eye for several minutes under running water.  
Remove contact lenses if present and easy to do so; continue rinsing.  
If symptoms develop seek medical attention.
  - **After swallowing:**  
If victim is unconscious; never give anything by mouth.  
If victim is conscious, rinse out mouth with water.  
Get medical attention if you feel unwell.
  - **Information for doctor:**
    - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
    - **Indication of any immediate medical attention and special treatment needed**
- Check section 11 Toxicological Information for further relevant information.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire fighting measures that suit the environment.  
Alcohol resistant foam  
Carbon dioxide  
dry chemical
- **Special hazards arising from the substance or mixture**  
Will not burn unless preheated.  
In case of fire, the following can be released:  
Formaldehyde  
Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)  
Silicon oxide (SiO<sub>2</sub>)
- **Advice for firefighters**
  - **Protective equipment:**  
If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).  
As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**  
For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.  
For small spills: Ventilate and wash area. Collect spills and absorbent material in appropriate container.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Store recovered material in a vented container.

### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Keep away from incompatible material(s).  
Avoid any release into the environment.  
Do not breathe dust/fumes/mist/vapor/spray.  
Avoid contact with eyes, skin and clothing.  
Keep away from heat, sparks, flames and ignition sources.  
Observe all the personal protection requirements in Section 8.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**  
Keep stored in accordance with local, regional, national, and international regulations.

### 8 Exposure controls/personal protection

- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**

**556-67-2 Octamethylcyclotetrasiloxane**

WEEL Long-term value: 10\* ppm  
\*OARS WEEL

· **Additional Occupational Exposure Limit Values for possible hazards during processing:** None.

- **Exposure controls**  
If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
- **Personal protective equipment:**
  - **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.

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Wash hands before breaks and at the end of work.

### Personal Protective Equipment (PPE)

#### Breathing equipment:

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator.

Observe OSHA regulations (29CFR 1910.134) for respirator use.

#### Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves



Chemical resistant gloves

#### Eye protection:



Safety Glasses with side shields

#### Body protection: Appropriate chemical resistant clothing.

### Limitation and supervision of exposure into the environment

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

##### Form:

Liquid

##### Color:

Translucent

##### Odor:

Characteristic

##### Odor threshold:

Not determined.

##### pH-value:

Not determined.  
Not determined.

#### Change in condition

##### Melting point/Melting range:

Undetermined.

##### Boiling point/Boiling range:

Undetermined.

##### Flash point:

>93 °C (>199.4 °F)

##### Flammability (solid, gaseous):

Not applicable.

##### Ignition temperature:

Not determined.

##### Decomposition temperature:

Not determined.

##### Auto igniting:

Product is not self-igniting.

##### Danger of explosion:

Product does not present an explosion hazard.

#### Explosion limits:

##### Lower:

Not determined.

##### Upper:

Not determined.

##### Vapor pressure:

Not determined.

##### Vapor Density:

not determined

##### Density at 20 °C (68 °F):

1.12 g/cm<sup>3</sup> (9.35 lbs/gal)

##### Relative density

Not determined.

##### Vapor density

Not determined.

##### Evaporation rate

Not determined.

#### Solubility in / Miscibility with

##### Water:

Not miscible or difficult to mix.

#### Partition coefficient (n-octanol/water): Not determined.

#### Viscosity:

##### Dynamic:

Not available.

##### Kinematic:

Not determined.  
Not available.

##### VOC content:

0.00 %

0.0 g/l / 0.00 lb/gal

## 10 Stability and reactivity

Reactivity No further relevant information available.

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- **Hazardous Reactivity and Chemical Stability**  
May generate flammable hydrogen when heated or in contact with incompatible materials.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** In contact with incompatible materials. No dangerous reactions known.
- **Conditions to avoid** Keep away from heat, sparks, flame and any other ignition sources.
- **Incompatible materials:**  
Oxidizing agents  
Acids  
Bases (Alkalies)
- **Hazardous decomposition products:** Refer to section 5.

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values that are relevant for classification:

#### 68083-19-2 Dimethyl siloxane, dimethylvinyl-terminated

Oral	LD50	>15,680 mg/kg (rat) Calculated from LD50 > 16mL/kg Reference: ChemID (2010).
Dermal	LD50	>15,680 mg/kg (rabbit) Calculated from LD50 > 16mL/kg Reference: ChemID (2010).
Inhalative	LC50/4 h	mg/l (rat) (test guideline not specified) No toxic effects were observed in acute inhalative studies. Reference: NLM TOXNET (2010).

#### 68909-20-6 Hydrolysis products of 1,1,1-trimethyl-N-(trimethylsilyl)silanamine with silica

Oral	LD50	mg/kg (No data available)
Dermal	LD50	mg/kg (No data available)
Inhalative	LC50/4 h	mg/l (No data available)

#### 68037-59-2 Siloxanes and silicones, di-Me, Me hydrogen

Oral	LD50	>20,000 mg/kg (rat) Reference: Brenntag (M)SDS (2005).
Dermal	LD50	mg/kg (No data available)
Inhalative	LC50/4 h	mg/l (No data available)

#### 70900-21-9 Polydimethylsiloxane, hydrogen terminated

Oral	LD50	>15,000 mg/kg (rat) (No test method available) Reference: Wacker Silicones (M)SDS (2011).
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#### Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.

#### Sensitization: No sensitizing effects known.

#### Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

#### Carcinogenic categories

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

None of the ingredients is listed.

#### NTP (National Toxicology Program)

None of the ingredients is listed.

#### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 12 Ecological information

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
  - **Bioaccumulative potential**  
No data available.  
No further relevant information available.
  - **Mobility in soil** No further relevant information available.
- **Additional ecological information:** The product is non-rapid degradable, and low or not highly bioaccumulative.
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
  - **PBT:** None of the ingredients is listed.
  - **vPvB:** None of the ingredients is listed.
- **Other adverse effects** No further relevant information available.

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**13 Disposal considerations**· **Waste treatment methods**· **RCRA Waste:**

68037-59-2 Siloxanes and silicones, di-Me, Me hydrogen D003 (Reactive) 5-10%

· **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.· **Uncleaned packagings:**· **Recommendation:** Dispose of according to your local waste regulations.**14 Transport information**· **UN-Number**

· DOT, ADN, IMDG, IATA

not regulated

· **UN proper shipping name**

· DOT, ADN, IMDG, IATA

not regulated

· **Transport hazard class(es)**

· DOT, ADN, IMDG, IATA

· Class

not regulated

· **Packing group**

· DOT, IMDG, IATA

not regulated

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **UN "Model Regulation":**

not regulated

**15 Regulatory information**· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **SARA Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **SARA Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **Section 311/312 (Hazardous Chemical Inventory reporting)**· **SARA Section 311/312 (Hazardous Chemical Inventory Reporting)**

68037-59-2 Siloxanes and silicones, di-Me, Me hydrogen R 5-10%

· **Hazard Abbreviations for SARA 311/312**

A - Acute Health Hazard

C - Chronic Health Hazard

F - Fire Hazard

R - Reactive Hazard

S - Sudden Release of Pressure Hazard

· **TSCA 8 (b) Inventory:**

68083-19-2 Dimethyl siloxane, dimethylvinyl-terminated ACTIVE

68909-20-6 Hydrolysis products of 1,1,1-trimethyl-N-(trimethylsilyl)silamine with silica ACTIVE

68037-59-2 Siloxanes and silicones, di-Me, Me hydrogen ACTIVE

70900-21-9 Polydimethylsiloxane, hydrogen terminated ACTIVE

68988-57-8 methylhydrogenpolysiloxane ACTIVE

556-67-2 Octamethylcyclotetrasiloxane ACTIVE

3277-26-7 1,1,3,3-tetramethyldisiloxane ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **International Regulation Lists**

· **REACH - Substances of Very High Concern (SVHC) List:**

556-67-2 Octamethylcyclotetrasiloxane

0.1-1%

· **Restriction of Hazardous Substances Directive (RoHS) list:**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. World Precision Instruments, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.wpiinc.com](http://www.wpiinc.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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