

**SECTION 1: Identification**

**1.1. Product identifier**

Product form : Mixture  
 Product name : CV-9052  
 Synonyms : Electrically Conductive, Controlled Volatility Silicone Grease

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

Use of the substance/mixture : For electric conductivity, high and low temperature stability and low bleed.  
 For professional use only.

**1.3. Details of the supplier of the safety data sheet**

NuSil Technology LLC  
 1050 Cindy Lane  
 Carpinteria, California 93013  
 USA  
 (805) 684-8780  
[ehs@nusil.com](mailto:ehs@nusil.com)  
[www.nusil.com](http://www.nusil.com)

**1.4. Emergency telephone number**

Emergency number : 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and Maritime)

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (GHS-US)**

Eye Irrit. 2B H320

**2.2. Label elements**

**GHS-US labeling**

Signal word (GHS-US) : Warning  
 Hazard statements (GHS-US) : H320 - Causes eye irritation  
 Precautionary statements (GHS-US) : P264 - Wash hands, forearms and exposed areas thoroughly after handling  
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337+P313 - If eye irritation persists: Get medical advice/attention

**2.3. Other hazards**

Other hazards not contributing to the classification : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**2.4. Unknown acute toxicity (GHS-US)**

70-75% of the mixture consists of ingredients of unknown acute toxicity.

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

| Name                                       | Product identifier   | %       | Classification (GHS-US)                              |
|--|----------------------|---------|--|
| Siloxanes and Silicones, di-Me             | (CAS No) 63148-62-9  | 70 - 75 | Eye Irrit. 2B, H320                                  |
| Carbon                                     | (CAS No) 7440-44-0   | 20 - 25 | Comb. Dust, H232<br>Acute Tox. Not classified (Oral) |
| Silica, amorphous, fumed, crystalline-free | (CAS No) 112945-52-5 | < 5     | Not classified                                       |

Full text of H-phrases: see section 16

# CV-9052

## Safety Data Sheet

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
- First-aid measures after inhalation : 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 : Rinse immediately with plenty of water. Obtain medical attention if irritation develops or 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 : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes serious eye irritation.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.

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

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: Fire-Fighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not considered flammable but may burn at high temperatures.
- Explosion hazard : Product is not explosive.
- Reactivity : Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for firefighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire.
- Firefighting instructions : Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Refer to Section 9 for flammability properties.

### SECTION 6: Accidental release measures

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

- General measures : Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

##### 6.1.1. For non-emergency personnel

- Protective equipment : Use appropriate personal protection equipment (PPE).
- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

# CV-9052

## Safety Data Sheet

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

### 6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : When heated, material emits irritating fumes. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Incompatible products : Strong acids. Strong bases. Strong oxidizers.

### 7.3. Specific end use(s)

For professional use only.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Silica, amorphous, fumed, crystalline-free (112945-52-5) |                                     |  |
|--|-------------------------------------|--|
| USA OSHA   | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 6 mg/m <sup>3</sup>                                |
| USA OSHA   | OSHA PEL (TWA) (ppm)                | 20 mppcf (80mg/m <sup>3</sup> /%SiO <sub>2</sub> ) |

### 8.2. Exposure controls

- Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
- Personal protective equipment : Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



- Materials for protective clothing : Chemically resistant materials and fabrics.
- Hand protection : Wear chemically resistant protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
- Environmental exposure controls : Do not allow the product to be released into the environment.
- Consumer exposure controls : Do not eat, drink or smoke during use.

# CV-9052

## Safety Data Sheet

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

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                       |
|---|-----------------------|
| Physical state                              | : Liquid              |
| Color                                       | : Black               |
| Odor  | : Little              |
| Odor threshold                              | : No data available   |
| pH  | : 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                                 | : > 275 °C (> 527 °F) |
| Auto-ignition Temperature                   | : No data 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   |
| Specific Gravity                            | : 1.1                 |
| Solubility                                  | : No data available   |
| Partition coefficient: n-octanol/water      | : No data available   |
| Viscosity                                   | No data available     |

#### 9.2. Other information

VOC content : < 1 %

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### Carbon (7440-44-0)

|               |               |
|---------------|---------------|
| LD50 oral rat | > 10000 mg/kg |
|---------------|---------------|

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

# CV-9052

## Safety Data Sheet

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

|   |   |
|---|---|
| <b>Silica, amorphous, fumed, crystalline-free (112945-52-5)</b> |   |
| IARC group  | 3 |

Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : Not classified  
Specific target organ toxicity (repeated exposure) : Not classified  
Aspiration hazard : Not classified  
Symptoms/injuries after inhalation : May cause respiratory irritation.  
Symptoms/injuries after skin contact : May cause skin irritation.  
Symptoms/injuries after eye contact : Causes serious eye irritation.  
Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

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

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Marine pollutant : No supplementary information available.

#### 14.3. Additional information

Other information : No supplementary information available.

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Siloxanes and Silicones, di-Me (63148-62-9)

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

##### Carbon (7440-44-0)

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

#### 15.2. US State regulations

##### Siloxanes and Silicones, di-Me (63148-62-9)

U.S. - Texas - Effects Screening Levels - Long Term

# CV-9052

## Safety Data Sheet

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

|   |
|---|
| U.S. - Texas - Effects Screening Levels - Short Term            |
| <b>Carbon (7440-44-0)</b>                                       |
| U.S. - Idaho - Occupational Exposure Limits - TWAs              |
| <b>Silica, amorphous, fumed, crystalline-free (112945-52-5)</b> |
| U.S. - Texas - Effects Screening Levels - Long Term             |
| U.S. - Texas - Effects Screening Levels - Short Term            |

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

Revision date : 03/24/2014  
Other information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

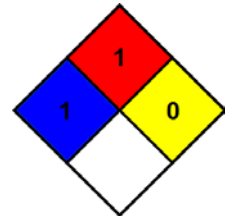
Full text of H-phrases: see section 16:

|                                  |   |
|----------------------------------|---|
| Acute Tox. Not classified (Oral) | Acute toxicity (oral) Not classified            |
| Comb. Dust                       | Combustible Dust                                |
| Eye Irrit. 2B                    | Serious eye damage/eye irritation Category 2B   |
| H232                             | May form combustible dust concentrations in air |
| H320                             | Causes eye irritation                           |

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



*We believe that the information contained herein is current as of the date of this Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of NuSil Technology, it is the user's obligation to determine the conditions of safe use of the product.*

SDS US (GHS HazCom 2012)