NuSil Technology LLC urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers and other users of the product of this information.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>NuSil Technology LLC</th>
<th>EMERGENCY TELEPHONE NUMBERS: (800) 424-9300 CHEMTREC (805) 684-8780</th>
</tr>
</thead>
<tbody>
<tr>
<td>1050 Cindy Lane</td>
<td>OUTSIDE OF THE USA (703) 527-3887 CHEMTREC</td>
</tr>
<tr>
<td>Carpinteria, California 93013 USA (805) 684-8780</td>
<td></td>
</tr>
</tbody>
</table>

PRODUCT NAME: **CV-2942 PART A**
CHEMICAL NAME: N/A
CHEMICAL FAMILY: Silicone
FORMULA: Proprietary
MOLECULAR WEIGHT: N/A
SYNONYMS: N/A
CAS #: Mixture

### 2. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>%</th>
<th>MATERIAL</th>
<th>CAS #</th>
<th>EXPOSURE VALUE</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>77-87</td>
<td>Aluminum oxide</td>
<td>01344-28-1</td>
<td>See Section 8</td>
<td>See Section 7</td>
</tr>
</tbody>
</table>

### 3. HAZARDS IDENTIFICATION

**EFFECTS OF SINGLE OVEREXPOSURE:**

**SWALLOWING:**
May cause nausea, vomiting, diarrhea, and abdominal discomfort.

**SKIN ABSORPTION:**
No evidence of adverse effects from available information.

**INHALATION:**
Short-term harmful health effects are not expected from vapor generated at ambient temperature.

**SKIN CONTACT:**
May cause skin irritation and reddening.

**EYE CONTACT:**
May cause irritation, experienced as stinging, excess blinking and tear production.
4. FIRST AID MEASURES

EMERGENCY AND FIRST AID MEASURES:

SWALLOWING:
If a large volume (several ounces) has been swallowed, and if the patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention.

SKIN:
Remove contaminated clothing and wash skin with soap and water. Wash clothing before reuse.

INHALATION:
Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Obtain medical attention.

EYES:
Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention if discomfort persists.

NOTES TO PHYSICIAN:
There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT (test method(s)): > 275°C Estimated

FLAMMABLE LIMITS IN AIR (by volume):
LOWER: N/A  UPPER: N/A

EXTINGUISHING MEDIA: Use water spray, carbon dioxide, dry chemical, alcohol-type or universal-type foams applied by manufacturer's recommended technique

SPECIAL FIRE FIGHTING PROCEDURES:
Do not spray a solid stream of water or foam directly into a pool of hot, burning liquid as this may cause frothing, and may intensify the fire. Use self-contained breathing apparatus when fighting fire in an enclosed area.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. See Section 10 for further information.
6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with all Federal, State, and local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Normal precautions common to safe manufacturing practice should be followed in handling and storage.

Keep container closed, in a cool dry place. S3/S7/S8
Avoid contact with skin and eyes S24/S25

Wash thoroughly after handling.

Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE VALUES AND SOURCE:
Aluminum oxide: 10 mg/m³ - 8 hours TWA (ACGIH)
10 mg/m³ - 8 hours TWA (total dust)(OSHA)
5 mg/m³ - 8 hours TWA (respirable fraction)(OSHA)

RESPIRATORY PROTECTION:
Use NIOSH approved respirator or self-contained breathing apparatus as needed to maintain personnel exposure below established Occupational Exposure Values.

VENTILATION:
General (mechanical) room ventilation is expected to be satisfactory for normal handling.

PROTECTIVE GLOVES: Vinyl or nitrile gloves.

EYE PROTECTION: Use safety glasses.

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES (based on typical material)

BOILING POINT: N/A
SPECIFIC GRAVITY (H₂O = 1): 2.42
FREEZING POINT: N/A
MELTING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY (air = 1): N/A
EVAPORATION RATE (Butyl Acetate = 1): N/A
SOLUBILITY IN WATER (By wt): Insoluble
APPEARANCE: Gray
ODOR: Odorless
PHYSICAL STATE: Paste
PERCENT VOLATILES (by wt): See Section 15

Note: The above information is not intended for use in preparing product specifications.

10. STABILITY AND REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: None known.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:
Burning can produce carbon monoxide, carbon dioxide, oxides of silicon, and hydrocarbons. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

COMPONENT:
CV-2942 PART A:
Acute Oral LD$_{50}$ (mg/kg): 500-5000 (Rat) Inferred from ingredient hazard(s)
Acute Dermal LD$_{50}$ (mg/kg): 1000-2000 (Rbt.) Inferred from ingredient hazard(s)
Acute Inhalation LC$_{50}$ (mg/l): 2-20 (Rat) Inferred from ingredient hazard(s)
Other: N/A.
Ames Test: N/A.

Refer to Section 3 for further discussion of the health hazards associated with this preparation.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Complete information not yet available.
CHEMICAL FATE INFORMATION: Complete information not yet available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State, and local regulations.

14. TRANSPORT INFORMATION

DOT HAZARD CLASSIFICATION: None
I.A.T.A. HAZARD CLASSIFICATION: None (Not Regulated)
15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:
The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Trade Secrets are indicated by "TS".

C.H.I.P. REGULATIONS

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 requires physico-chemical and health hazard determination of all substances and preparations manufactured, transported, stored, modified, or consumed within the U.K. Components present in this product at a level, which could require reporting under the statute, are:

***** NONE ****

FEDERAL EPA

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are:

***** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40 CFR 355 (used for SARA 302, 304, 311, and 312). Components present in this product at a level which could require reporting under the statute are:

***** NONE ****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDS's that are copied and distributed for this material. Components present in this product at a level which could require reporting under this statute are:

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide</td>
<td>01344-28-1</td>
<td>77-87 %</td>
</tr>
</tbody>
</table>

INVENTORY STATUS
The ingredients of this product are listed on, or are exempt from listing on, the TSCA inventory.

STATE-RIGHT-TO-KNOW

CALIFORNIA Proposition 65
This product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.
MASSACHUSETTS 105 CMR 670.000 Right-To-Know, Substance List (MSL)
Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

<table>
<thead>
<tr>
<th>MATERIAL</th>
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PENNSYLVANIA Right-To-Know, Hazardous Substance List
Hazardous Substances and Special Hazardous Substances on the List must be identified when present in products. Components present in this product at a level which could require reporting under the statute are:

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CALIFORNIA SCAQMD RULE 443.1 VOC'S:
Volatile Organic Components (VOC's) = Substances with vapor pressure of \( \geq 0.5 \text{ mm Hg at } 104^\circ C (219.2^\circ F) \). This product contains < 1 % by weight VOC's.

OTHER REGULATORY INFORMATION:
EPA Hazard Categories: None.

C.H.I.P. Regulations:
- Designation: CV-2942 PART A
- Symbol: N/A
- Indication of Danger: N/A
- Safety Phrases: S3/S7/S8/S24/S25
(Ref. Sect. 7)

16. OTHER INFORMATION

HMIS FORMAT:
- Health: 1
- Flammability: 1
- Reactivity: 0

We believe that the information contained herein is current as of the date of this Material 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 LLC, it is the user's obligation to determine the conditions of safe use of the product.

-NuSil Technology LLC Regulatory Compliance Department

Effective Date: February 10, 2012
MATERIAL SAFETY DATA SHEET
CV-2942 PART B

NuSil Technology LLC urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers and other users of the product of this information.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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<td>USA</td>
<td>OUTSIDE OF THE USA (703) 527-3887 CHEMTREC</td>
</tr>
<tr>
<td>(805) 684-8780</td>
<td></td>
</tr>
</tbody>
</table>

PRODUCT NAME: CV-2942 PART B
CHEMICAL NAME: N/A
CHEMICAL FAMILY: Silicone
FORMULA: Proprietary
MOLECULAR WEIGHT: N/A
SYNONYMS: N/A
CAS #: Mixture

2. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>%</th>
<th>MATERIAL</th>
<th>CAS #</th>
<th>EXPOSURE VALUE</th>
<th>CLASSIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>27-37</td>
<td>Resin Crosslinker</td>
<td>68988-57-8</td>
<td>Not Established</td>
<td>See Section 7</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EFFECTS OF SINGLE OVEREXPOSURE:
SWALLOWING:
May cause irritation of the mouth, throat, esophagus and stomach, with headache, nausea, narcosis and unconsciousness.

SKIN ABSORPTION:
May be mildly irritating to the skin.

INHALATION:
No information available. Avoid inhalation.

SKIN CONTACT:
No information available. Avoid contact.

EYE CONTACT:
May cause immediate or delayed severe eye irritation.
EFFECTS OF REPEATED OVEREXPOSURE:
This product, as with any chemical, may enhance allergic reactions in certain people. We do not know of any medical conditions that might be aggravated by exposure to this product, but unnecessary exposure to any chemical should be avoided.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
No information available.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION:
No information available.

OTHER EFFECTS OF OVEREXPOSURE:
May causes irritation. May be fatal if swallowed or inhaled. Wash thoroughly after handling.

4. FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:
SWALLOWING:
Do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.

SKIN:
Remove contaminated clothing and wash skin with soap and water. Wash clothing before reuse.

INHALATION:
Remove to fresh air. Obtain medical attention if symptoms persist.

EYES:
Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if discomfort persists.

NOTES TO PHYSICIAN:
None available.

5. FIRE FIGHTING MEASURES

FLASH POINT (test method(s)): >200 °F Estimated

FLAMMABLE LIMITS IN AIR (by volume):
LOWER: N/A  UPPER: N/A

EXTINGUISHING MEDIA:
Apply alcohol-type or universal-type foams by manufacturers' recommended techniques for large fires. Use water spray, carbon dioxide, or dry chemical media for small fires.

SPECIAL FIRE FIGHTING PROCEDURES:
Do not direct a solid stream of water or foam directly into a pool of hot, burning liquid as this may cause frothing, and may intensify the fire. Use self-contained breathing apparatus when fighting fire in an enclosed area.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Do not extinguish fires with water. Contact with water may cause release of H2 gas, which is highly flammable.

This product contains polydimethylsiloxane that can generate formaldehyde as a byproduct of oxidative thermal decomposition at temperatures greater than 150°C (300°F). See Section 10 for further information.
6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with all Federal, State, and local regulations.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Normal precautions common to safe manufacturing practice should be followed in handling and storage.

- Keep container closed; in a cool dry place S3/S7/S8
- Avoid contact with skin and eyes S24/S25
- In case of fire do not breathe fumes $41

Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE VALUES AND SOURCE:
RESPIRATORY PROTECTION:
Use NIOSH approved respirator or self-contained breathing apparatus as needed to maintain personnel exposure below established Occupational Exposure Values.

VENTILATION: General (mechanical) room ventilation with local ventilation as needed to maintain exposure below established Occupational Exposure Values.

PROTECTIVE GLOVES: Use vinyl or nitrile gloves.

EYE PROTECTION: Use safety glasses.

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES (based on typical material)

- BOILING POINT: N/A
- SPECIFIC GRAVITY (H$_2$O=1): 1.0
- FREEZING POINT: N/A
- VAPOR PRESSURE, mm Hg @ 25°C: N/A
- VAPOR DENSITY (air=1): N/A
- EVAPORATION RATE (Butyl Acetate=1): N/A
- SOLUBILITY IN WATER (By wt): Insoluble
- APPEARANCE: Translucent
- ODOR: Slight Odor
- PHYSICAL STATE: Liquid
- PERCENT VOLATILES (by wt): See Section 15

Note: The above information is not intended for use in preparing product specifications.

10. STABILITY AND REACTIVITY DATA

STABILITY: Stable.
CONDITIONS TO AVOID: Avoid contact with elevated temperatures, open flame and other ignition sources.
INCOMPATIBILITY: Avoid contact with strong oxidizing agents.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:
Burning can produce carbon monoxide, carbon dioxide, oxides of silicon, hydrogen chloride and phosgene (small amounts), and hydrocarbons. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Traces of formaldehyde may be generated due to oxidative thermal decomposition at temperatures greater than 150°C (300°F). Exposure to formaldehyde can cause adverse effects such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential carcinogen. Evaluate and control exposure to formaldehyde when warranted by conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

COMPONENT:
CV-2942 PART B:
Acute Oral LD50 (mg/kg): 500-5000 (Rat) Inferred from ingredient hazard(s)
Acute Dermal LD50 (mg/kg): 1000-2000 (Rbt.) Inferred from ingredient hazard(s)
Acute Inhalation LC50 (mg/l): 2-20 (Rat) Inferred from ingredient hazard(s)
Other: N/A.
Ames Test: N/A.
Refer to Section 3 for further discussion of the health hazards associated with this preparation.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Complete information not yet available.
CHEMICAL FATE INFORMATION: Complete information not yet available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State, and local regulations.

14. TRANSPORT INFORMATION

DOT HAZARD CLASSIFICATION: None
I.A.T.A. HAZARD CLASSIFICATION: None (not regulated)

15. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:
The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Trade Secrets are indicated by "TS".

C.H.I.P. REGULATIONS

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 requires physico-chemical and health hazard determination of all substances and preparations manufactured, transported, stored, modified, or consumed within the U.K. Components present in this product at a level, which could require reporting under the statute, are:

****NONE****
Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at a level that could require reporting under the statute are: ****NONE****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40 CFR 355 (used for SARA 302, 304, 311, and 312). Components present in this product at a level that could require reporting under the statute are: ****NONE****

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDS's that are copied and distributed for this material. Components present in this product at a level that could require reporting under this statute are: ****NONE****

INVENTORY STATUS
The ingredients of this product are listed on, or are exempt from listing on, the TSCA inventory.

STATE-RIGHT-TO-KNOW

CALIFORNIA Proposition 65
This product contains the following listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

MASSACHUSETTS 105 CMR 670.000 Right-To-Know, Substance List (MSL)
Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products. Components present in this product at a level that could require reporting under the statute are: ****NONE****

PENNSYLVANIA Right-To-Know, Hazardous Substance List
Hazardous Substances and Special Hazardous Substances on the List must be identified when present in products. Components present in this product at a level that could require reporting under the statute are: ****NONE****

CALIFORNIA SCAQMD RULE 443.1 VOC'S:
Volatile Organic Components (VOC's) = Substances with vapor pressure of \(\geq 0.5\) mm Hg at 104°C (219.2°F). This product contains No VOC's.

OTHER REGULATORY INFORMATION:
EPA Hazard Categories: None
C.H.I.P. Regulations:
Designation: CV-2942 PART B
Symbol: N/A
Indication of Danger: N/A
16. OTHER INFORMATION

HMIS FORMAT:

Health:  1  Flammability:  1  Reactivity:  1

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet, and is offered in good faith. Since 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 LLC, it is the user's obligation to determine the conditions of safe use of the product.

-NuSil Technology LLC Regulatory Compliance Department

Effective Date: February 10, 2012