

MATERIAL SAFETY DATA SHEET

CV-2646 PART A

NuSil Technology 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

NuSil Technology 1050 Cindy Lane Carpinteria, California 93013 USA (805) 684-8780	EMERGENCY TELEPHONE NUMBERS: (800) 424-9300 CHEMTREC (805) 684-8780 OUTSIDE OF THE USA (703) 527-3887 CHEMTREC
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PRODUCT NAME: CV-2646 Part A
CHEMICAL NAME: N/A
CHEMICAL FAMILY: Silicone
FORMULA: Proprietary
MOLECULAR WEIGHT: N/A
SYNONYMS: N/A
CAS # : Mixture

2. HAZARDOUS INGREDIENTS

%	<u>MATERIAL</u>	<u>CAS #</u>	<u>EXPOSURE VALUE</u>	<u>CLASSIFICATION</u>
50	Nickel, as Ni	07440-02-0	See Section 7	See Section 8
10	Silver, as Ag	07440-22-4	See Section 7	See Section 8
5	Silica, amorphous	07631-86-9	See Section 7	See Section 8

3. HAZARDS IDENTIFICATION

EFFECTS OF SINGLE OVEREXPOSURE:

SWALLOWING:

No evidence of adverse effects from available information.

SKIN ABSORPTION:

No evidence of adverse effects from available information.

INHALATION:

No evidence of adverse effects from available information.

SKIN CONTACT:

Localized argyria (permanent bluish-gray discoloration) of the skin may occur from the handling of metallic silver or from particles becoming embedded in the skin.

EYE CONTACT:

May cause irritation, experienced as stinging with excess blinking and tear production. Excess redness and swelling of the conjunctiva may occur. Contact with metallic silver has caused localized argyria (permanent bluish-gray discoloration) of the conjunctiva.

EFFECTS OF REPEATED OVEREXPOSURE:

No injury from silica or dust should occur during reasonable use. If use creates respirable particles, some respiratory system injury may occur. However, since the silica, silver, and nickel in this product are compounded into the polymer matrix, they are not expected to present the same hazards as those in the neat forms.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

Skin contact can cause an allergic skin rash and/or asthma in previously sensitized individuals.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION:

The IARC and the NTP have classified elemental nickel as possibly carcinogenic to humans. However, since the nickel in this product is encapsulated within silver and within the polymer matrix, it is not expected, during reasonable use, to present the same hazards as in the neat form.

OTHER EFFECTS OF OVEREXPOSURE:

None currently known.

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. Obtain medical attention.

SKIN:

Wash with soap and water.

INHALATION:

No emergency care anticipated.

EYES:

Immediately flush eyes with water and continue washing for several 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 (Cleveland Open Cup)

FLAMMABLE LIMITS IN AIR (by volume):

LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA:

Use carbon dioxide, dry chemical, 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

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

Causes eye and skin irritation R36/R38

Possible risk of irreversible effects R40

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:

Nickel, elemental: 1 mg/m³ - 8 hours TWA (ACGIH, OSHA)
0.015 mg/m³ - 8 hours TWA (NIOSH)

Silver, metal: 0.1 mg/m³ - 8 hours TWA (ACGIH)
0.01 mg/m³ - 8 hours TWA (OSHA, NIOSH)

Silica, amorphous : 10 mg/m³ - 8 hours TWA (ACGIH,)
6 mg/m³ - 8 hours TWA (OSHA, NIOSH)

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: PVC-coated.

EYE PROTECTION: Use safety glasses.

OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower.

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

BOILING POINT, 760 mm Hg: N/A
 SPECIFIC GRAVITY (H₂O=1): 3.5
 FREEZING POINT: N/A
 VAPOR PRESSURE @ 20°C: N/A
 VAPOR DENSITY (air = 1): N/A
 EVAPORATION RATE (Butyl Acetate = 1): N/A
 SOLUBILITY IN WATER (By wt): Insoluble
 APPEARANCE: Tan/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.

INCOMPATIBILITY: None.

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-2646 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.

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, it is the user's obligation to determine the conditions of safe use of the product.

-NuSil Technology Regulatory Compliance Department

Effective Date: October 27, 2004