

SCV1-2596 Part A

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date:
24/08/2016

Date of issue:
14/02/2014

Version: 3.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product Name : SCV1-2596 Part A
Synonyms : Ultra Low Outgassing Electrically Conductive Silicone
Adhesive/Sealant

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
Use of the substance/mixture : For applications requiring ultra-low outgassing and minimal volatile condensables under extreme operating conditions. For professional use only

1.2.2. Uses advised against

No additional information available

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
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 according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request
EUH208 - Contains Nickel(7440-02-0). May produce an allergic reaction

2.3. Other Hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|---------|---|
| Nickel* | (CAS No) 7440-02-0 (EC no) 231-111-4 (EC index no) 028-002-00-7 | 55 - 60 | Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 3, H412 |
| Silver | (CAS No) 7440-22-4 (EC no) 231-131-3 | 20 - 25 | Not classified |
| Silicic acid (H ₄ SiO ₄), tetraethyl ester, reaction products with chlorodimethylsilane | (CAS No) 68988-57-8 (EC no) 273-531-0 | 1 - 2 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 |

*The Nickel component of this product is bound in a silicon matrix. The hazards usually associated with Nickel are not applicable to this product.
Full text of H-statements: see section 16

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 where possible).
- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. 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 : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/injuries after inhalation : Prolonged exposure may cause irritation.
- Symptoms/injuries after skin contact : Prolonged exposure may cause skin irritation.
- Symptoms/injuries after eye contact : May cause slight irritation to eyes.
- Symptoms/injuries after ingestion : Ingestion may cause adverse effects.
- Chronic symptoms : None expected under normal conditions of use.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, dry chemical, foam, carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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.

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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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, 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 : Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

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 : Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapours, mist, spray.

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 again when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use. Store in a dry, cool place. 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 applications requiring ultra-low outgassing and minimal volatile condensables under extreme operating conditions. For professional use only

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

| Nickel (7440-02-0) | | |
|---------------------------|---|---|
| Austria | TEL TRK (mg/m ³) | 0,5 mg/m ³ (dust, inhalable fraction) |
| Austria | OEL chemical category (AT) | Group A1 Carcinogen dust/aerosol, Respiratory sensitizer dust, Skin sensitizer |
| Belgium | Limit value (mg/m ³) | 1 mg/m ³ |
| Bulgaria | OEL TWA (mg/m ³) | 0,05 mg/m ³ |
| Bulgaria | Bulgaria - BEI | 45 µg/l (Medium: urine - Time: after several shifts - Parameter: Nickel) |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 0,5 mg/m ³ |
| Croatia | OEL chemical category (HR) | Carcinogen category 3 |
| France | VME (mg/m ³) | 1 mg/m ³ 1 mg/m ³ (metal gratings) |
| France | OEL chemical category (FR) | Carcinogen category 2 |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 0,006 mg/m ³ |
| Greece | OEL TWA (mg/m ³) | 1 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 1,5 mg/m ³ (inhalable fraction) |
| Latvia | OEL TWA (mg/m ³) | 0,05 mg/m ³ |
| Spain | VLA-ED (mg/m ³) | 1 mg/m ³ (manufacturing, commercialization and use restrictions according to REACH) |
| Spain | OEL chemical category (ES) | C1A, Sensitizer |
| Switzerland | VME (mg/m ³) | 0,5 mg/m ³ (inhalable dust) |
| Switzerland | OEL chemical category (CH) | Category C3 carcinogen, Sensitizer |
| Switzerland | Switzerland - BEI | 45 µg/l (Medium: urine - Time: end of shift, and after several shifts (for long-term exposures) - Parameter: Nickel (N)) |
| United Kingdom | WEL TWA (mg/m ³) | 0,5 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 1,5 mg/m ³ (calculated) |
| United Kingdom | WEL chemical category | Potential for cutaneous absorption |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 0,5 mg/m ³ |
| Czech Republic | OEL chemical category (CZ) | Sensitizer |
| Czech Republic | Czech Republic - BEI | 0,077 µmol/mmol Creatinine (Medium: urine - Time: discretionary - Parameter: Nickel) 0,04 mg/g Kreatinin (Medium: urine - Time: discretionary - Parameter: Nickel) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0,05 mg/m ³ (dust and powder) |
| Estonia | OEL TWA (mg/m ³) | 0,5 mg/m ³ |
| Estonia | OEL chemical category (ET) | Sensitizer |
| Finland | HTP-arvo (8h) (mg/m ³) | 0,01 mg/m ³ |
| Finland | Finland - BEI | 0,1 µmol/l (Medium: urine - Time: end of shift at end of workweek - Parameter: Nickel) |
| Hungary | MK-érték | 0,1 mg/m ³ |
| Hungary | OEL chemical category (HU) | Carcinogenic substance, Sensitizer |
| Ireland | OEL (8 hours ref) (mg/m ³) | 0,5 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 1,5 mg/m ³ (calculated) |
| Lithuania | IPRV (mg/m ³) | 0,5 mg/m ³ |
| Lithuania | OEL chemical category (LT) | Carcinogen, Sensitizer |
| Norway | Grenseverdier (AN) (mg/m ³) | 0,05 mg/m ³ |

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| Nickel (7440-02-0) | | |
|---------------------------|---|---|
| Norway | Grenseverdier (Korttidsverdi) (mg/m ³) | 0,05 mg/m ³ |
| Norway | OEL chemical category (NO) | Carcinogen, Potential reproductive hazard, Sensitizing substance |
| Poland | NDS (mg/m ³) | 0,25 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 0,10 mg/m ³ |
| Romania | OEL STEL (mg/m ³) | 0,50 mg/m ³ |
| Romania | OEL chemical category (RO) | Carcinogen |
| Romania | Romania - BEI | 15 µg/l (Medium: urine - Time: end of shift - Parameter: Nickel) |
| Slovakia | Slovakia - BEI | 0,03 mg/l (Medium: blood - Time: end of exposure or work shift - Parameter: Nickel) |
| Slovenia | OEL TWA (mg/m ³) | 0,5 mg/m ³ (inhalable fraction) |
| Slovenia | OEL STEL (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| Slovenia | OEL chemical category (SL) | Category 2 |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0,5 mg/m ³ (total dust) |
| Sweden | OEL chemical category (SE) | Sensitizer |
| Portugal | OEL TWA (mg/m ³) | 1,5 mg/m ³ (inhalable fraction) |
| Portugal | OEL chemical category (PT) | A5 - Not Suspected as a Human Carcinogen |
| Silver (7440-22-4) | | |
| EU | IOELV TWA (mg/m ³) | 0,1 mg/m ³ |
| Austria | MAK (mg/m ³) | 0,1 mg/m ³ (inhalable fraction) |
| Austria | MAK Short time value (mg/m ³) | 0,1 mg/m ³ (inhalable fraction) |
| Austria | OEL - Ceilings (mg/m ³) | 0,1 mg/m ³ (inhalable fraction) |
| Belgium | Limit value (mg/m ³) | 0,1 mg/m ³ |
| Bulgaria | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 0,1 mg/m ³ |
| Cyprus | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| France | VME (mg/m ³) | 0,1 mg/m ³ (indicative limit) |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 0,1 mg/m ³ (inhalable fraction) |
| Greece | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0,1 mg/m ³ (dust and fume) |
| Italy | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Latvia | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Spain | VLA-ED (mg/m ³) | 0,1 mg/m ³ (indicative limit value) |
| Switzerland | VLE (mg/m ³) | 0,8 mg/m ³ (inhalable dust) |
| Switzerland | VME (mg/m ³) | 0,1 mg/m ³ (inhalable dust) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 0,1 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 0,1 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 0,3 mg/m ³ (calculated) |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 0,1 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0,01 mg/m ³ (dust and powder) |
| Estonia | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Finland | HTP-arvo (8h) (mg/m ³) | 0,1 mg/m ³ |

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| Silver (7440-22-4) | | |
|---------------------------|--|--|
| Hungary | AK-érték | 0,1 mg/m ³ |
| Hungary | CK-érték | 0,4 mg/m ³ (Substances with European indicative limits (96/94/EC, 2000/39/EC, 2006/15/EC, 2009/161/EU), which currently has no peak limit concentration. In these cases, Annex 3.1. should be used exercised) |
| Ireland | OEL (8 hours ref) (mg/m ³) | 0,1 mg/m ³ (metallic) |
| Ireland | OEL (15 min ref) (mg/m ³) | 0,3 mg/m ³ (calculated-metallic) |
| Lithuania | IPRV (mg/m ³) | 0,1 mg/m ³ |
| Malta | OEL TWA (mg/m ³) | 0,1 mg/m ³ (metallic) |
| Norway | Grenseverdier (AN) (mg/m ³) | 0,1 mg/m ³ (metal dust and fume) |
| Norway | Grenseverdier (Korttidsverdi) (mg/m ³) | 0,3 mg/m ³ (metal dust and fume) |
| Poland | NDS (mg/m ³) | 0,05 mg/m ³ (inhalable fraction) |
| Romania | OEL TWA (mg/m ³) | 0,1 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 0,1 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 0,01 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0,1 mg/m ³ (total dust) |
| Portugal | OEL TWA (mg/m ³) | 0,01 mg/m ³ (indicative limit value) |

8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
- Personal protective equipment : Gloves. Protective clothing. Protective goggles.
- 
- Materials for protective clothing : Chemically resistant materials and fabrics.
- Hand protection : Wear protective gloves.
- Eye protection : Chemical safety goggles.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : Tan/Grey.
- Odour : Odourless.
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available

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| | |
|--|-----------------------|
| Flash point | : > 275 °C (> 527 °F) |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative Density | : 3,1 (water = 1) |
| Solubility | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

VOC content : 5 - 10 %

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, and incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Oxides of nickel. Silicon oxides. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| | |
|---------------------------|--------------|
| Nickel (7440-02-0) | |
| LD50 oral rat | > 9000 mg/kg |
| Silver (7440-22-4) | |
| LD50 oral rat | > 2000 mg/kg |

| | |
|--|-------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified. |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified. |
| Aspiration hazard | : Not classified |

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Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

| Nickel (7440-02-0) | |
|--------------------------------|--|
| LC50 fish 1 | 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio) |
| EC50 Daphnia 1 | 121,6 µg/l (Exposure time: 48h - Species: Ceriodaphnia dubia [static]) |
| LC50 fish 2 | 15,3 mg/l |
| EC50 Daphnia 2 | 1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 other aquatic organisms 2 | 0,174 (0,174 - 0,311) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata [static]) |

| Silver (7440-22-4) | |
|---------------------------|--|
| LC50 fish 1 | 0,00155 - 0,00293 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 0,00024 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC50 fish 2 | 0,0062 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| NOEC chronic fish | 390 ng/l (Exposure time: 28d - Species: Pimephales promelas) |

12.2. Persistence and degradability

| SCV1-2596 Part A | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| SCV1-2596 Part A | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

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14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 5 - 10 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

| Section | Section Header | Change | Date Changed |
|---------|--|--|--------------|
| 1.3 | Details of the supplier of the safety data sheet | Modified | 24/08/2016 |
| 2 | Hazards identification | Modified | 24/08/2016 |
| 3 | Composition/information on ingredients | Removed not classified components and components below cutoffs. Removed DSD/DPD information. | 24/08/2016 |
| 15.1.1 | EU-Regulations | Modified | 24/08/2016 |

Revision date : 24/08/2016

Data sources : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:

| | |
|-------------------|---|
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, Category 1 |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| H226 | Flammable liquid and vapour |
| H315 | Causes skin irritation |

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| | |
|--------|--|
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H351 | Suspected of causing cancer |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H412 | Harmful to aquatic life with long lasting effects |
| EUH208 | Contains . May produce an allergic reaction |
| EUH210 | Safety data sheet available on request |

Nusil EU GHS SDS

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.

SCV1-2596 Part B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date:
24/08/2016

Date of issue:
14/02/2014

Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product Name : SCV1-2596 Part B
Synonyms : Ultra Low Outgassing Electrically Conductive Silicone
Adhesive/Sealant

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

1.2.1. Relevant identified uses

Use of the substance/mixture : For applications requiring ultra-low outgassing and minimal volatile condensables under extreme operating conditions. For professional use only.

1.2.2. Uses advised against

No additional information available

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
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 according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other Hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Within the meaning of Regulation (EC) No 1272/2008: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 where possible).
- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. 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 : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/injuries after inhalation : Prolonged exposure may cause irritation.
- Symptoms/injuries after skin contact : Prolonged exposure may cause skin irritation.
- Symptoms/injuries after eye contact : May cause slight irritation to eyes.
- Symptoms/injuries after ingestion : Ingestion may cause adverse effects.
- Chronic symptoms : None expected under normal conditions of use.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, dry chemical, foam, carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, 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.

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Emergency procedures : Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

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 : Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapours, mist, spray.

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 again when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use. Store in a dry, cool place. 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)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment : Gloves. Protective clothing. Protective goggles.



Materials for protective clothing : Chemically resistant materials and fabrics.

Hand protection : Wear protective gloves.

Eye protection : Chemical safety goggles.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

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Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-----------------------|
| Physical state | : Liquid |
| Colour | : Translucent. |
| Odour | : Odourless. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=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 |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative Density | : 0.97 (Water=1) |
| Solubility | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : 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, and incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

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| | |
|---|---|
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified.

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

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14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : < 1 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

| Section | Section Header | Change | Date Changed |
|---------|--|--|--------------|
| 1.3 | Details of the supplier of the safety data sheet | Modified | 24/08/2016 |
| 2 | Hazards identification | Modified | 24/08/2016 |
| 3 | Composition/information on ingredients | Removed not classified components and components below cutoffs. Removed DSD/DPD information. | 24/08/2016 |
| 15.1.1 | EU-Regulations | Modified | 24/08/2016 |

Revision date : 24/08/2016

Data sources : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Nusil EU GHS SDS

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.



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