Ladd Catalog Number: LCV2-2644

CV-2644 Part A

3 Ewing Place Essex Junction, VT 05452 USA

Tel: (802) 658-4961

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Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 06/29/2023

Version: 2.0

SECTION 1: Identification

1.1. Product identifier

Product form Mixture

Product name CV-2644 Part A

Synonyms Electrically Conductive Silicone Adhesive/Sealant

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

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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 <u>ehs@nusil.com</u> www.nusil.com

1.4. Emergency telephone number

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

number Maritime)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No data available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Nickel*	(CAS No) 7440-02-0	65 - 70	Combustible Dust Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 3, H412
Silver	(CAS No) 7440-22-4	10 - 25	Not classified

^{*}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-phrases: see section 16

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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 Rinse immediately with plenty of water. Obtain medical attention if

contact irritation develops or persists.

First-aid measures after eye Rinse cautiously with water for at least 15 minutes. Remove contact 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

Not expected to present a significant hazard under anticipated Symptoms/injuries

conditions of normal use.

Symptoms/injuries after inhalation

May cause respiratory irritation. Symptoms/injuries after skin May cause skin irritation.

contact

Symptoms/injuries after eye May cause eye irritation.

contact

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects.

Chronic symptoms None expected under normal conditions of use.

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

Use extinguishing media appropriate for surroundina fire. Suitable extinguishing media

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.

Hazardous reactions will not occur under normal conditions. Reactivity

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.

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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.

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

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)

Use for RFI and EMI shielding in electronic and space applications. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Nickel (7440-02-0)		
USA ACGIH	ACGIH TWA (mg/m³)	1.5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	l mg/m³
Silver (7440-22-4)		
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.01 mg/m³

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 Protective goggles. Gloves. Protective clothing.



Materials for protective clothing

Hand protection

Chemically resistant materials and fabrics.

Wear chemically resistant protective gloves.

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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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Grey/Tan
Odor : Odorless

Odor threshold : No data available На : No data available **Evaporation Rate** : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : > 527 °F (275 °C) **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 : 3.1

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, CO₂). Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

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Silver (7440-22-4)		
LD50 oral rat	> 2000 mg/kg	
Nickel (7440-02-0)		
LD50 oral rat	> 9000 mg/kg	
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Not classified	
Respiratory or skin sensitization	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Nickel (7440-02-0)		

Nickel (7440-02-0)	
IARC group	2B
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard Not classified

Symptoms/injuries after inhalation May cause respiratory irritation.

Symptoms/injuries after skin

contact

May cause skin irritation.

May cause eye irritation.

Symptoms/injuries after eye

contact

·

Symptoms/injuries after ingestion Chronic symptoms

None expected under normal conditions of use.

Ingestion is likely to be harmful or have adverse effects.

SECTION 12: Ecological information

12.1. Toxicity

Silver (7440-22-4)		
LC50 fish 1	0.00155 (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])	
Nickel (7440-02-0)		
LC50 fish 1	100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)	
EC50 Daphnia 1	121.6 µg/I (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])	

12.2. Persistence and degradability

CV-2644 Part A	•
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

CV-2644 Part A	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information Avoid release to the environment.

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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

Not applicable

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

All components of this product are listed or exempted from being listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

CV-2644 Part A	
SARA Section 311/312 Hazard	Delayed (chronic) health hazard
Classes	
Silver (7440-22-4)	
Subject to reporting requirements	of United States SARA Section 313
CERCLA RQ	1000 lb < 100 um CERCLA/SARA RQ CHANGE TITLE
SARA Section 313 - Emission	1.0 %
Reporting	
Nickel (7440-02-0)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb (only applicable if particles are < 100 µm)
SARA Section 311/312 Hazard	Immediate (acute) health hazard
Classes	Delayed (chronic) health hazard
SARA Section 313 - Emission	0.1 %
Reporting	

15.2. US State regulations

Nickel (7440-02-0)	
U.S California - Proposition 65 - Carcinogens List	WARNING: This product contains chemicals known
	to the State of California to cause cancer.

Silver (7440-22-4)

- U.S. California Priority Toxic Pollutants Freshwater Criteria
- U.S. California Priority Toxic Pollutants Saltwater Criteria
- U.S. California SCAQMD Toxic Air Contaminants With Proposed Risk Values
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Colorado Hazardous Wastes Maximum Concentration for the Toxicity Characteristics
- U.S. Colorado Primary Drinking Water Regulations Secondary Maximum Contaminant Levels (SMCLs)

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Safety Data Sheet

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- U.S. Connecticut Drinking Water Quality Standards Groundwater Sources
- U.S. Connecticut Drinking Water Quality Standards Maximum Contaminant Levels
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Connecticut Water Quality Standards Acute Freshwater Aquatic Life Criteria
- U.S. Connecticut Water Quality Standards Acute Saltwater Aquatic Life Criteria
- U.S. Connecticut Water Quality Standards Consumption of Organisms Only
- U.S. Connecticut Water Quality Standards Consumption of Water and Organisms
- U.S. Connecticut Water Quality Standards Health Designations
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Florida Drinking Water Standards Secondary Maximum Contaminant Levels (SMCLs)
- U.S. Georgia Drinking Water Secondary Maximum Contaminant Levels (SMCLs)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maryland Surface Water Quality Standards Acute Freshwater Aquatic Life
- U.S. Maryland Surface Water Quality Standards Acute Saltwater Aquatic Life Criteria
- U.S. Massachusetts Drinking Water Secondary Maximum Contaminant Levels (SMCLs)
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Groundwater Health Risk Limits
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. Missouri Drinking Water Secondary Maximum Contaminant Levels (SMCLs)
- U.S. Nebraska Maximum Concentration of Contaminants for the Toxicity Characteristic
- U.S. Nevada Drinking Water Secondary Maximum Contaminant Levels (SMCLs)
- U.S. New Hampshire Drinking Water Secondary Maximum Contaminant Levels (SMCLs)
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Secondary Drinking Water Standards Recommended Upper Limits (RULs)
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New Jersey Water Quality Ground Water Quality Criteria
- U.S. New Jersey Water Quality Practical Quantitation Levels (PQLs)
- U.S. New Mexico Water Quality Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
- U.S. New York Occupational Exposure Limits TWAs
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. North Dakota Hazardous Wastes Maximum Concentration for the Toxicity Characteristic
- U.S. North Dakota Water Quality Standards Aquatic Life Acute Value for Classes I, IA, II, III
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- U.S. Pennsylvania Drinking Water Secondary Maximum Contaminant Levels (SMCLs)
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

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- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Water Quality Standards Acute Freshwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Acute Saltwater Aquatic Life Criteria
- U.S. South Carolina Secondary Maximum Contaminant Levels (SMCLs)
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Drinking Water Standards Secondary Constituent Levels (SCLs)
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Utah Drinking Water Secondary Maximum Contaminant Levels (SMCLs)
- U.S. Vermont Hazardous Waste Hazardous Constituents
- U.S. Vermont Hazardous Waste Maximum Contaminant Concentration for Toxicity
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Virginia Water Quality Standards Acute Freshwater Aquatic Life
- U.S. Virginia Water Quality Standards Acute Saltwater Aquatic Life
- U.S. Washington Dangerous Waste Dangerous Waste Constituents List
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Alaska Water Quality Standards Acute Aquatic Life Criteria for Fresh Water
- U.S. Alaska Water Quality Standards Acute Aquatic Life Criteria for Marine Water
- U.S. Arkansas Surface Water Quality Standards Acute Aquatic Life Criteria

Nickel (7440-02-0)

- U.S. California Priority Toxic Pollutants Freshwater Criteria
- U.S. California Priority Toxic Pollutants Human Health Criteria
- U.S. California Priority Toxic Pollutants Saltwater Criteria
- U.S. California SCAQMD Toxic Air Contaminants Carcinogens
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Chronic
- U.S. California SDAPCD Toxic Air Contaminants Carcinogenic Impacts Must Be Calculated
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)
- U.S. Connecticut Drinking Water Quality Standards Maximum Contaminant Levels
- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Connecticut Water Quality Standards Acute Freshwater Aquatic Life Criteria
- U.S. Connecticut Water Quality Standards Acute Saltwater Aquatic Life Criteria
- U.S. Connecticut Water Quality Standards Chronic Freshwater Aquatic Life Criteria
- U.S. Connecticut Water Quality Standards Chronic Saltwater Aquatic Life Criteria
- U.S. Connecticut Water Quality Standards Consumption of Organisms Only
- U.S. Connecticut Water Quality Standards Consumption of Water and Organisms
- U.S. Connecticut Water Quality Standards Health Designations
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Florida Drinking Water Standards Inorganic Contaminants Maximum Contaminant Levels (MCLs)
- U.S. Georgia Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. Idaho Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Illinois Toxic Air Contaminant Carcinogens
- U.S. Illinois Toxic Air Contaminants
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- U.S. Maine Chemicals of High Concern
- U.S. Maryland Surface Water Quality Standards Acute Freshwater Aquatic Life
- U.S. Maryland Surface Water Quality Standards Acute Saltwater Aquatic Life Criteria
- U.S. Maryland Surface Water Quality Standards Chronic Freshwater Aquatic Life
- U.S. Maryland Surface Water Quality Standards Chronic Saltwater Aquatic Life Criteria
- U.S. Maryland Surface Water Quality Standards Consumption of Organisms Only
- U.S. Maryland Surface Water Quality Standards Consumption of Water and Organisms

U.S. - Massachusetts - Allowable Ambient Limits (AALs)

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- U.S. Massachusetts Allowable Threshold Concentrations (ATCs)
- U.S. Massachusetts Drinking Water Guidelines
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 2
- RTK U.S. Massachusetts Right To Know List
- U.S. Massachusetts Threshold Effects Exposure Limits (TELs)
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Michigan Polluting Materials List
- U.S. Minnesota Chemicals of High Concern
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. Nebraska Drinking Water Maximum Contaminant Levels (MCLs)
- U.S. New Hampshire Prohibited Volatile Organic Compounds
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New Jersey Environmental Hazardous Substances List
- RTK U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. New Mexico Water Quality Standards for Ground Water of 10,000 mg/L TDS Concentration or Less
- U.S. New York Priority Chemical Avoidance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Carolina Control of Toxic Air Pollutants
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. North Dakota Water Quality Standards Aquatic Life Acute Value for Classes I, IA, II, III
- U.S. North Dakota Water Quality Standards Aquatic Life Chronic Value for Classes I, IA, II, III
- U.S. North Dakota Water Quality Standards Human Health Value for Class III
- U.S. North Dakota Water Quality Standards Human Health Value for Classes I, IA, II
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- U.S. Pennsylvania Beneficial Use of Sewage Sludge by Land Application Pollutant Ceiling Limits
- RTK U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- RTK U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances
- RTK U.S. Pennsylvania RTK (Right to Know) List
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 1-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels 24-Hour
- U.S. Rhode Island Air Toxics Acceptable Ambient Levels Annual
- U.S. Rhode Island Water Quality Standards Acute Freshwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Acute Saltwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Chronic Freshwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Chronic Saltwater Aquatic Life Criteria
- U.S. Rhode Island Water Quality Standards Human Health Criteria for Consumption of Aquatic Organisms Only
- U.S. Rhode Island Water Quality Standards Human Health Criteria for Consumption of Water and Aquatic Organisms
- U.S. South Carolina Toxic Air Pollutants Maximum Allowable Concentrations
- U.S. South Carolina Toxic Air Pollutants Pollutant Categories
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Utah Drinking Water Maximum Contaminant Levels (MCLs)

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- U.S. Vermont Hazardous Waste Hazardous Constituents
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Virginia Water Quality Standards Acute Freshwater Aquatic Life
- U.S. Virginia Water Quality Standards Acute Saltwater Aquatic Life
- U.S. Virginia Water Quality Standards Chronic Freshwater Aquatic Life
- U.S. Virginia Water Quality Standards Chronic Saltwater Aquatic Life
- U.S. Virginia Water Quality Standards Public Water Supply Effluent Limits
- U.S. Virginia Water Quality Standards Surface Waters Not Used for the Public Water Supply Effluent Limits
- U.S. Washington Dangerous Waste Dangerous Waste Constituents List
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet
- U.S. Alaska Water Quality Standards Acute Aquatic Life Criteria for Fresh Water
- U.S. Alaska Water Quality Standards Chronic Aquatic Life Criteria for Fresh Water
- U.S. Alaska Water Quality Standards Acute Aquatic Life Criteria for Marine Water
- U.S. Alaska Water Quality Standards Chronic Aquatic Life Criteria for Marine Water
- U.S. Arkansas Surface Water Quality Standards Chronic Aquatic Life Criteria
- U.S. Arkansas Surface Water Quality Standards Acute Aquatic Life Criteria

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

Revision date 02/16/2016

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:

Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 2	Carcinogenicity Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

0 - Exposure under fire conditions would offer no hazard beyond that of ordinary

combustible materials.

NFPA fire hazard

1 - Must be preheated before ignition can occur.



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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.

Nusil US GHS SDS

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Version: 3.0

SECTION 1: Identification

1.1. Product identifier

Product form Mixture

Product name CV-2644 Part B

Synonyms Electrically Conductive Silicone Adhesive/Sealant

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

Use of the substance/mixture Use for RFI and EMI shielding in electrical and space applications. 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 <u>ehs@nusil.com</u> www.nusil.com

1.4. Emergency telephone number

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

number Maritime)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No data available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions.

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).

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First-aid measures after skin

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Remove to fresh air and keep at rest in a position comfortable for First-aid measures after inhalation

> breathing. Obtain medical attention if breathing difficulty persists. Rinse immediately with plenty of water. Obtain medical attention if

irritation develops or persists.

contact

Rinse cautiously with water for at least 15 minutes. Remove contact First-aid measures after eye contact

lenses, if present and easy to do. Continue rinsing. Obtain medical

attention.

First-aid measures after inaestion 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

Not expected to present a significant hazard under anticipated Symptoms/injuries

conditions of normal use.

Symptoms/injuries after inhalation

Symptoms/injuries after skin

contact

May cause respiratory irritation. May cause skin irritation.

Symptoms/injuries after eve

contact

May cause eye irritation.

Ingestion is likely to be harmful or have adverse effects. Symptoms/injuries after inaestion

None expected under normal conditions of use. Chronic symptoms

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.

Hazardous reactions will not occur under normal conditions. Reactivity

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.

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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

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)

Use for RFI and EMI shielding in electrical and space applications. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), or OSHA (PEL).

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 Protective goggles. Gloves. Protective clothing.



Materials for protective clothing

Hand protection

Eye protection

Skin and body protection

Respiratory protection

Chemically resistant materials and fabrics.

Wear chemically resistant protective gloves.

Chemical goggles or safety glasses. Wear suitable protective clothing.

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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Translucent
Odor : Odorless

Odor threshold : No data available На : No data available **Evaporation Rate** : No data available Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : > 527 °F (275 °C) **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 : 0.97

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, CO₂). Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Not classified

Not classified

Not classified

Not classified

Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified

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Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard Not classified

Symptoms/injuries after inhalation May cause respiratory irritation.

Symptoms/injuries after skin May cause skin irritation.

contact

Symptoms/injuries after eye May cause eye irritation.

contact

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects.

Chronic symptoms None expected under normal conditions of use.

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

Not applicable

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

All components of this product are listed or exempted from being listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. US State regulations

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No additional information available

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

Revision date 06/29/2023

Other information This document has been prepared in accordance with the SDS

requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200.

NFPA health hazard 0 - Exposure under fire conditions would

offer no hazard beyond that of ordinary

combustible materials.

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.



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