# MED1-161





Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date:: 02/07/2023 Date of Issue: 04/25/2014

Version 6.0

### **SECTION 1: Identification**

### 1.1. Product Identifier

Product Form Mixture
Product Name MED1-161
Synonyms Silicone Primer

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance/Mixture 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

productstewardship@avantorsciencesgcc.com

www.nusil.com

### 1.4. Emergency Telephone Number

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

Number and Maritime)

### **SECTION 2: Hazards Identification**

### 2.1. Classification of the Substance or Mixture

### **GHS-US Classification**

Flammable liquids Category 2	H225
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation Category 1	H318
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Aspiration hazard Category 1	H304
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411

### 2.2. Label Elements

### **GHS-US Labeling**

Hazard Pictograms (GHS-US)



GHS02



GHS05







Signal Word (GHS-US)

Hazard Statements (GHS-US)

Danger

H225 - Highly flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

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# Precautionary Statements (GHS-US)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating, and lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, and eye protection.

P301+P310 - If swallowed: Immediately call a poison center or doctor.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a poison center or doctor.

P321 - Specific treatment (see section 4 on this SDS).

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Other Hazards Not Contributing to the Classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Repeated or prolonged skin contact may cause dermatitis and defatting.

### 2.4. Unknown Acute Toxicity (GHS-US)

5 - 10% of the mixture consists of ingredients of unknown acute toxicity.

# **SECTION 3: Composition/Information On Ingredients**

### 3.1. Substances

Not applicable

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#### 3.2. **Mixtures**

Name	Product Identifier	%*	GHS-US Classification
Solvent naphtha, petroleum, light aliphatic	(CAS-No.) 64742-89-8	65 - 85	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1-Butanol, titanium(4+) salt	(CAS-No.) 5593-70-4	5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
Silicic acid (H4SiO4), tetrakis(2- methoxyethyl) ester	(CAS-No.) 2157-45-1	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H-phrases: see section 16

### **SECTION 4: First Aid Measures**

#### **Description of First-aid Measures** 41

4.1. Description of this raid in	neusures
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).
F: 1 : 1 : 4 : 6 : 6 : 6 : 6 : 6 : 6 : 6 : 6 : 6	· · · · · · · · · · · · · · · · · · ·
First-aid Measures After	When symptoms occur: go into open air and ventilate
Inhalation	suspected area. Obtain medical attention if breathing difficulty persists.
First-aid Measures After Skin	Immediately remove contaminated clothing. Immediately
Contact	drench affected area with water for at least 15 minutes. If
Comaci	exposed or concerned: Get medical advice/attention.
First-aid Measures After Eye	Immediately rinse with water for at least 30 minutes. Remove
Contact	contact lenses, if present and easy to do. Continue rinsing. Get
	immediate medical advice/attention.
First-aid Measures After	Do NOT induce vomiting. Turn affected person(s) on their side
Ingestion	and maintain in that position to prevent aspiration. Rinse mouth.
	Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed		
Symptoms/Injuries	May be fatal if swallowed and enters airways. Causes serious	
	eye damage. Causes skin irritation. May cause drowsiness and dizziness.	
Symptoms/Injuries After	High concentrations may cause central nervous system	
Inhalation	depression such as dizziness, vomiting, numbness, drowsiness,	
	headache, and similar narcotic symptoms.	
Symptoms/Injuries After Skin	Redness, pain, swelling, itching, burning, dryness, and	
Contact	dermatitis.	
Symptoms/Injuries After Eye	Causes permanent damage to the cornea, iris, or conjunctiva.	
Contact		
Symptoms/Injuries After	Aspiration into the lungs can occur during ingestion or vomiting	
Ingestion	and may cause lung injury.	

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<sup>\*</sup>The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200].

Chronic Symptoms Repeated or prolonged skin contact may cause dermatitis and

defattina.

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: Fire-Fighting Measures**

5.1. **Extinguishing Media** 

Suitable Extinguishing Media : Dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO<sub>2</sub>). Water may be ineffective but water should be used to

keep fire-exposed container cool.

Unsuitable Extinguishing Media : Do not use a heavy water stream. A heavy water stream may

spread burning liquid.

Special Hazards Arising From the Substance or Mixture 5.2.

Fire Hazard Highly flammable liquid and vapor. Vapors may travel to

source of ignition and flash back.

**Explosion Hazard** May form flammable or explosive vapor-air mixture.

Reactivity Reacts violently with strong oxidizers. Increased risk of fire or

explosion.

**Advice for Firefighters 5.3**.

Precautionary Measures Fire Exercise caution when fighting any chemical fire.

Use water spray or fog for cooling exposed containers. In case Firefighting Instructions

of major fire and large quantities: Evacuate area. Fight fire

remotely due to the risk of explosion.

**Protection During Firefighting** Do not enter fire area without proper protective equipment,

including respiratory protection.

Hazardous Combustion

Other Information

**Products** 

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. Metal oxides.

Do not allow run-off from fire fighting to enter drains or water

courses.

### SECTION 6: Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment And Emergency Procedures

General Measures Keep away from heat, hot surfaces, sparks, open flames, and

> other ignition sources. No smoking. Use special care to avoid static electric charges. Do not get in eyes, on skin, or on

clothing. Do not breathe vapor, mist or spray.

6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE). **Emergency Procedures** Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For emergency responders

**Protective Equipment** Equip cleanup crew with proper protection.

**Emergency Procedures** Eliminate ignition sources first, then ventilate the 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.

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#### **Environmental Precautions** 6.2.

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### Methods and Materials for Containment and Cleaning Up

For Containment As an immediate precautionary measure, isolate spill or leak

area in all directions. Contain any spills with dikes or absorbents

to prevent migration and entry into sewers or streams.

Clean up spills immediately and dispose of waste safely. Use Methods for Cleaning Up

> only non-sparking tools. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a

spill.

### **Reference to Other Sections**

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

### **SECTION 7: Handling And Storage**

#### **Precautions for Safe Handling** 7.1.

Additional Hazards When Handle empty containers with care because residual vapors

**Processed** 

are flammable. Spilled material may present a slipping hazard. Precautions for Safe Handling Use only non-sparking tools. Take precautionary measures

against static discharge. Do not breathe vapors, mist, spray, Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Use explosion-proof electrical, ventilating, and lighting **Technical Measures** 

> equipment. Take action to prevent static discharges. Ground and bond container and receiving equipment. Comply with

applicable regulations.

**Storage Conditions** Store in a dry, cool place. Keep/Store away from direct sunlight,

> extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a wellventilated place. Keep container tightly closed. Keep in

fireproof place.

Incompatible Materials Strong acids, strong bases, strong oxidizers.

#### Specific End Use(S) 7.3.

For professional use only.

# **SECTION 8: Exposure Controls/Personal Protection**

#### **Control Parameters** 8.1.

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).

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#### **Exposure Controls** 8.2.

Appropriate Engineering Ensure adequate ventilation, especially in confined areas. Use Controls

explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Gas detectors should be used when flammable gases or vapors may be released. 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. Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Personal Protective Equipment









Materials For Protective

Clothing

Hand Protection Eve And Face Protection Skin And Body Protection Respiratory Protection

Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Wear protective gloves.

Chemical safety goggles.

Wear suitable protective clothing.

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 **Appearance** Colorless Odor Solvent

Odor Threshold No data available рΗ No data available **Evaporation Rate** No data available **Melting Point** No data available Freezina Point No data available **Boiling Point** 99 °C (210.2 °F) Flash Point 17 °C (62.6 °F) **Auto-ignition Temperature** No data available **Decomposition Temperature** No data available Flammability (solid, gas) Not applicable Vapor Pressure No data available Relative Vapor Density at 20°C No data available Relative Density No data available Solubility No data available Partition Coefficient n-Octanol/Water No data available Viscosity No data available

9.2. Other Information

**VOC Content** 65 - 85 %

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# **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

### 10.2. Chemical Stability

Highly flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. Metal oxides. Hydrolyzes in water to form n-butanol, titanium dioxide and methoxyethanol.

# **SECTION 11: Toxicological Information**

### 11.1. Information on Toxicological Effects

Acute Toxicity (Oral)	Not classified
Acute Toxicity (Dermal)	Not classified
Acute Toxicity (Inhalation)	Not classified

Solvent naphtha, petroleum, light aliphatic (64742-89-8)		
D50 Oral Rat > 5000 mg/kg		
LD50 Dermal Rabbit	> 2000 mg/kg (no deaths)	

1-Butanol, titanium(4+) salt (5593-70-4)		
LD50 Oral Rat	> 2000 mg/kg	
Skin Corrosion/Irritation Serious Eye Damage/Irritation	Causes skin irritation. Causes serious eye damage.	
Respiratory or Skin Sensitization Germ Cell Mutagenicity Carolina applicits	Not classified Not classified Not classified	
Carcinogenicity Reproductive Toxicity	Not classified.	
Specific Target Organ Toxicity (Single Exposure)	May cause drowsiness or dizziness.	
Specific Target Organ Toxicity (Repeated Exposure)	Not classified	
Aspiration Hazard Symptoms/Injuries After Inhalation	May be fatal if swallowed and enters airways.  High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.	
Symptoms/Injuries After Skin Contact	Redness, pain, swelling, itching, burning, dryness, and dermatitis.	
Symptoms/Injuries After Eye Contact	Causes permanent damage to the cornea, iris, or conjunctiva.	

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Symptoms/Injuries After Aspiration into the lungs can occur during ingestion or vomiting

Ingestion and may cause lung injury.

Chronic Symptoms Repeated or prolonged skin contact may cause dermatitis and

defatting.

### **SECTION 12: Ecological Information**

### 12.1. Toxicity

Ecology - General Toxic to aquatic life with long lasting effects.

1-Butanol, titanium(4+) salt (5593	3-70-4)
EC50 - Crustacea [1]	680 mg/l

### 12.2. Persistence and Degradability

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Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

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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.

## **SECTION 13: Disposal Considerations**

### 13.1. Waste Treatment Methods

Waste Disposal Dispose of contents/container in accordance with local,

Recommendations regional, national, and international regulations.

Additional Information Handle empty containers with care because residual vapors

are flammable.

the aquatic environment. Keep out of sewers and waterways.

# **SECTION 14: Transport Information**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** PETROLEUM DISTILLATES, N.O.S.

Hazard Class 3

Identification Number UN1268

Label Codes 3
Packing Group ||

Marine Pollutant Marine pollutant

ERG Number 128

### 14.2. In Accordance with IMDG

**Proper Shipping Name** PETROLEUM DISTILLATES, N.O.S.

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Hazard Class 3

Identification Number UN1268

Packing Group || 3
Label Codes 3
EmS-No. (Fire) F-E
EmS-No. (Spillage) S-E

Marine Pollutant Marine pollutant

14.3. In Accordance with IATA

**Proper Shipping Name** PETROLEUM DISTILLATES, N.O.S.

Packing Group

Identification Number UN1268

Hazard Class 3 Label Codes 3 ERG Code (IATA) 3H



### **SECTION 15: Regulatory Information**

### 15.1. US Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.

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SARA Section 311/312 Hazard	Health hazard - Specific target organ toxicity (single or repeated
Classes	exposure)
	Health hazard - Skin corrosion or Irritation
	Physical hazard - Flammable (gases, aerosols, liquids, or solids)
	Health hazard - Serious eye damage or eye irritation
	Health hazard - Aspiration hazard

### 15.2. US State Regulations

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

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

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

U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups

1-Butanol, titanium(4+) salt (5593-70-4)

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

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

Silicic acid (H4SiO4), tetrakis(2-methoxyethyl) ester (2157-45-1)

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

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

# SECTION 16: Other Information, Including Date of Preparation or Last Revision

Date of Preparation or Latest 02/07/2023

Revision

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Other Information

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

NFPA Health Hazard 3 - Materials that, under emergency

conditions, can cause serious or

permanent injury.

NFPA Fire Hazard 3 - Liquids and solids (including finely

divided suspended solids) that can be ignited under almost all ambient

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temperature conditions.

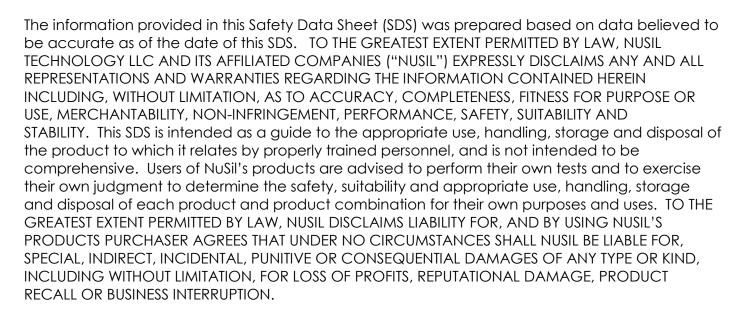
NFPA Reactivity Hazard 0 - Material that in themselves are

normally stable, even under fire

conditions.

**HMIS III Rating** 

Health 3 Serious Hazard
Flammability 3 Serious Hazard
Physical 0 Minimal Hazard



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