# **MED-160**

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 09/15/2023 Date of Issue: 01/29/2016



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# **SECTION 1: Identification**

### 1.1. Product Identifier

Product Form Product Name Synonyms Mixture MED-160 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

Emergency800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International<br/>and Maritime)

# **SECTION 2: Hazards Identification**

### 2.1. Classification of the Substance or Mixture

#### **GHS-US Classification**

### 2.2. Label Elements

#### GHS-US Labeling

Hazard Pictograms (GHS-US)



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)	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment.</li> <li>P241 - Use explosion-proof electrical, ventilating, and lighting equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P261 - Avoid breathing vapors, mist, or spray.</li> <li>P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves, protective clothing, and eye protection.</li> <li>P301+P310 - If swallowed: Immediately call a poison center or doctor.</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P305+P351+P388 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a poison center or doctor.</li> <li>P321 - Specific treatment (see section 4 on this SDS).</li> <li>P331 - Do NOT induce vomiting.</li> <li>P322+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.</li> <li>P391 - Collect spillage.</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool.</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool.</li> <li>P403+P235 - Store in a context container in accordance with local.</li> </ul>
	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 exposure may cause skin dryness or cracking. Flammable vapors can accumulate in head space of closed systems.

### 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	<b>%</b> *	GHS-US Classification
Solvent naphtha, petroleum, light	(CAS-No.) 64742-89-8	70 - 90	Flam. Liq. 2, H225
aliphatic			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Chronic 2, H411
1-Butanol, titanium(4+) salt	(CAS-No.) 5593-70-4	< 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-	(CAS-No.) 2157-45-1	< 10	Skin Irrit. 2, H315
methoxyethyl) ester			Eye Irrit. 2, H319

Full text of H-phrases: see section 16

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

# **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 personnel should wear appropriate protective equipment during any rescue.
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. Obtain medical attention if irritation develops or persists.
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. Immediately call a POISON CENTER or doctor/physician.
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 Contact	Redness, pain, swelling, itching, burning, dryness, and dermatitis.
Symptoms/Injuries After Eye Contact	Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Chronic Symptoms	Repeated exposure may cause skin dryness or cracking.

# 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> ).
Unsuitable Extinguishing Media	: Water is ineffective as it may generate flammable gases: n- Butanol and 2-Methoxyethanol.
5.2. Special Hazards Arising F	rom the Substance or Mixture
Fire Hazard	Highly flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Will float and can be reignited on water surface.
Explosion Hazard Reactivity	May form flammable or explosive vapor-air mixture. Reacts violently with strong oxidizers. Increased risk of fire or explosion. Reacts with water to form n-butanol, 2-Methoxyethanol and titanium dioxide.
5.3. Advice for Firefighters	
Precautionary Measures Fire Firefighting Instructions	Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. In case 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 Products	Carbon oxides (CO, CO <sub>2</sub> ). Silicon oxides. Metal oxides.
Other Information	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 Personn	el
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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# 6.2. Environmental Precautions

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

# 6.3. 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.
Methods for Cleaning Up	Clean up spills immediately and dispose of waste safely. Use 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.

### 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

Additional Hazards When Processed	Flammable vapors may accumulate in the head space of closed systems. Container may remain hazardous when empty.
Precautions for Safe Handling	Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing 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 Storag	ge, Including Any Incompatibilities
Technical Measures	Use explosion-proof electrical, ventilating, and lighting 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 well- ventilated place. Keep container tightly closed. Keep in fireproof place.
Incompatible Materials	Strong acids, strong bases, strong oxidizers. Water.
7.3. Specific End Use(s)	
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

Personal Protective Equipment

Materials For Protective Clothing Hand Protection Eye And Face Protection Skin And Body Protection Respiratory Protection Ensure adequate ventilation, especially in confined areas. Use 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.



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. When using, do not eat, drink or smoke.

Other Information

# SECTION 9: Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

AppearanceColorless to AmberOdorSolventOdor ThresholdNo data availablepHNo data availableEvaporation RateNo data availableMelting PointNo data availableFreezing PointNo data availableBoiling Point99 °C (210 °F)Flash Point17 °C (63 °F)Auto-ignition TemperatureNo data availableDecomposition TemperatureNo data availableFlammability (solid, gas)Not applicableVapor PressureNo data availableRelative Density at 20 °CNo data availableSpecific Gravity0.76SolubilityNo data availablePartition Coefficient n-Octanol/WaterNo data availableViscosityNo data available	Physical State	Liquid
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Partition Coefficient n-Octanol/Water No data available	Specific Gravity	0.76
-	Solubility	No data available
Viscosity No data available	Partition Coefficient n-Octanol/Water	No data available
	Viscosity	No data available

### 9.2. Other Information

VOC Content 70 – 90%

# **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity

Reacts violently with strong oxidizers. Increased risk of fire or explosion. Reacts with water to form nbutanol, 2-Methoxyethanol and titanium dioxide.

#### 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. Water.

### 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, 2-Methoxyethanol and titanium dioxide.

# 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, ligh	t aliphatic (64742-89-8)
LD50 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	Causes skin irritation.
Serious Eye Damage/Irritation	Causes serious eye damage.
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
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	May be fatal if swallowed and enters airways.
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 Contact	Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After	Aspiration into the lungs can occur during ingestion or vomiting
Ingestion	and may cause lung injury.
Chronic Symptoms	Repeated exposure may cause skin dryness or cracking.

# **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		
MED-160		
Persistence and Degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative Potenti	al	
MED-160		
Bioaccumulative Potential	Not established.	
12.4. Mobility In Soil		
No additional information availab	ble	
12.5. Other Adverse Effects		
Other Information	Avoid release to the environment.	

# **SECTION 13: Disposal Considerations**

#### 13.1. Waste Treatment Methods

Dispose of contents/container in accordance with local,
regional, national, and international regulations.
Handle empty containers with care because residual vapors are flammable.
Avoid release to the environment. This material is hazardous to 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 Identification Number Packing Group Label Codes EmS-No. (Fire) EmS-No. (Spillage) Marina Pollutant	3 UN1268 II 3 F-E S-E
Marine Pollutant	Marine pollutant
14.3. In Accordance v	with IATA
Proper Shipping Name	PETROLEUM DISTILLATES, N.O.S.
Packing Group	
Identification Number	UN1268
Hazard Class	3
Label Codes	3
ERG Code (IATA)	ЗН

# **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, or are 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 Revision	09/15/2023
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:

GH2	FUILTEXT Phrases:	
	Flam. Liq. 2	Flammable liquids Category 2
	Flam. Liq. 3	Flammable liquids Category 3
	Asp. Tox. 1	Aspiration hazard Category 1
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Eye Irrit. 2	Serious eye damage/eye irritation Category 2
	STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
	Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
	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
	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 temperature conditions.
NFPA	Reactivity Hazard	1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
	III Rating	
Healt		3 Serious Hazard
Flammability		3 Serious Hazard
Physi		1 Slight Hazard
		Safety Data Sheet (SDS) was prepared based on data believed to be

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