MED-163





Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of Revision: 03/09/2023 Date of Issue: 05/07/2014

Version: 7.0

SECTION 1: Identification

1.1. Product Identifier

Product Form Mixture
Product Name MED-163
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

Flam. Lia. 2 H225 Skin Irrit. 2 H315 Eve Dam. 1 H318 Skin Sens. 1 H317 Muta. 2 H341 Carc. 2 H351 STOT SE 3 H336 Asp. Tox. 1 H304 Aquatic Chronic 2 H411

Full text of hazard classes and H-statements: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)











GHS02

GHS05 GHS07

GHS08

GHS09

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

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

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H336 - May cause drowsiness or dizziness.

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

H402 - Harmful to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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 mist, spray, vapours

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

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

P272 - Contaminated work clothing should not be allowed out of the workplace.

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 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.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a poison center or doctor.

P312 - Call a POISON CENTRE or doctor if you feel unwell.

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.

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2.3. Other Hazards

Other Hazards Not Contributing Exposure may aggravate pre-existing eye, skin, or respiratory to the Classification conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: Composition/Information On Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product Identifier	%	GHS-US Classification
Solvent naphtha, petroleum,	(CAS-No.) 64742-89-8	70 - 90	Flam. Liq. 2, H225
light aliphatic			STOT SE 3, H336
			Asp. Tox. 1, H304
			Aquatic Chronic 2, H411
Platinum Catalyst	(CAS-No.) 68478-92-2	< 10	Skin Irrit. 2, H315
			Eye Dam. 1, H318
			STOT SE 3, H335
1-Butanol, titanium(4+) salt	(CAS-No.) 5593-70-4	< 5	Flam. Liq. 3, H226
			Skin Irrit. 2, H315
			Eye Dam. 1, H318
			STOT SE 3, H336
			STOT SE 3, H335
Silane, trimethoxy[2-(7-	(CAS-No.) 3388-04-3	< 5	Skin Irrit. 2, H315
oxabicyclo[4.1.0]hept-3-			Skin Sens. 1A, H317
yl)ethyl]-			Muta. 2, H341
			Carc. 2, H351
			Aquatic Chronic 3, H412
Silane, trimethoxy-7-octenyl-	(CAS-No.) 52217-57-9	< 5	Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			STOT SE 3, H335

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).	
F: 1 : 1) /	1 ,	
First-aid Measures After	When symptoms occur: go into open air and ventilate	
Inhalation	suspected area. Obtain medical attention if breathing difficulty persists.	
First sid AAs sources After Clairs	•	
First-aid Measures After Skin	Immediately remove contaminated clothing. Immediately	
Contact	drench affected area with water for at least 15 minutes. If	

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exposed or concerned: Get medical advice/attention.

Inhalation

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. Rinse mouth. Immediately call a

Ingestion POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries Causes serious eye damage. Causes skin irritation. May be fatal

if swallowed and enters airways. Suspected of causing genetic defects. Suspected of causing cancer. May cause drowsiness

or dizziness. Skin sensitisation.

Symptoms/Injuries After High concentrations may cause central nervous system

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. May cause an allergic skin reaction.

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 and may cause lung injury.

Chronic Symptoms Suspected of causing genetic defects. Suspected of causing

cancer. 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

(CO₂). 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.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard Highly flammable liquid and vapor. Will float and can be

reignited on water surface.

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

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

explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire Exercise caution when fighting any chemical fire.

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 Carbon oxides (CO, CO₂).

Products

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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 Do not get in eyes, on skin, or on clothing. Do not breathe

vapor, mist or spray. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use

special care to avoid static electric charges.

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 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. Eliminate

ignition sources. Ventilate area.

6.2. Environmental Precautions

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

6.3. Methods and Materials for Containment and Cleaning Up

For Containment Contain any spills with dikes or absorbents to prevent migration

and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all

directions.

Methods for Cleaning Up Absorb and/or contain spill with inert material. Clean up spills

immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools. 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

Precautions for Safe Handling

Processed

Handle empty containers with care because residual vapors are flammable.

Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood. Do not breathe vapors, mist, spray. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharge. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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Hygiene Measures Handle in accordance with good industrial hygiene and safety

procedures.

Conditions for Safe Storage, Including Any Incompatibilities 7.2.

Technical Measures Comply with applicable regulations. Take action to prevent

> static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and

lighting equipment.

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

> extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place. Store locked up/in a

secure area.

Incompatible Materials Strong acids, strong bases, strong oxidizers.

Specific End Use(s) 7.3. 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).

Exposure Controls

Appropriate Engineering Emergency eye wash fountains and safety showers should be Controls available in the immediate vicinity of any potential exposure.

Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.

Personal Protective Equipment

Clothing

Hand Protection

Eye And Face Protection

Skin And Body Protection

Respiratory Protection







Chemically resistant materials and fabrics. Wear fire/flame Materials For Protective

> resistant/retardant clothing. Wear protective gloves.

Chemical safety gogales.

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.

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SECTION 9: Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Physical State Liquid
Appearance Colorless
Odor Solvent

Odor Threshold

pH

No data available

No data available

Evaporation Rate

Melting Point

No data available

Auto-ignition Temperature

Decomposition Temperature

Flammability (solid, gas)

Vapor Pressure

Relative Vapor Density at 20 °C

Relative Density

No data available

No data available

No data available

No data available

Specific Gravity < 1

Solubility

Partition Coefficient n-Octanol/Water

Viscosity

No data available

No data available

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.

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

None expected under normal conditions of use.

SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

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

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Acute Toxicity (Inhalation) : Not classified

Solvent naphtha, petroleum, light aliphatic (64742-89-8)		
LD50 Oral Rat	> 5000 mg/kg	
LD50 Dermal Rabbit	3000 mg/kg	
1-Butanol, titanium(4+) salt (5593-70-4)		
LD50 Oral Rat	> 2000 mg/kg	
Silane, trimethoxy[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]- (3388-04-3)		
LD50 Oral Rat	8 ml/kg	

Skin Corrosion/Irritation Causes skin irritation.

Serious Eye Damage/Irritation Causes serious eve damage. Respiratory or Skin Sensitization May cause an allergic skin reaction. Germ Cell Mutagenicity Suspected of causing genetic defects.

Carcinogenicity Suspected of causing cancer.

Reproductive Toxicity : Not classified Specific Target Organ Toxicity (Single : May cause drowsiness or dizziness

Exposure)

Specific Target Organ Toxicity (Repeated : Not classified

Exposure)

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. May cause an allergic skin reaction.

Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Eye

Contact

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

Inaestion

and may cause lung injury. Chronic Symptoms Suspected of causing genetic defects. Suspected of causing

cancer. 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	(5593-70-4)		
EC50 Daphnia 1	680 mg/l		

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

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12.5. Other Adverse Effects

Other Information Avoid release to the environment.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Waste Treatment Methods Dispose of waste material in accordance with all local,

regional, national, and international regulations.

Additional Information Handle empty containers with care because residual vapors

are flammable.

Ecology - Waste Materials 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 II
ERG Number 128

Marine Pollutant Marine Pollutant

14.2. In Accordance with IMDG

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

Hazard Class 3

Identification Number UN1268

Packing Group II
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



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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	Physical hazard - Flammable (gases, aerosols, liquids, or solids)
Classes	Health hazard - Skin corrosion or Irritation
	Health hazard – Skin sensitization
	Health hazard - Germ cell mutagenicity
	Health hazard - Carcinogenicity
	Health hazard - Serious eye damage or eye irritation
	Health hazard - Aspiration hazard

15.2. US State Regulations

15.2. US Sidie Regulations
Solvent naphtha, petroleum, light aliphatic (64742-89-8)
U.S California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical
Groups
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
1-Butanol, titanium(4+) salt (5593-70-4)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
Silane, trimethoxy[2-(7-oxabicyclo[4.1.0]hept-3-yl)ethyl]- (3388-04-3)
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 03/09/2023

Revision

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:

Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic
	Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Muta. 2	Germ cell mutagenicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2

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Skin Sens. 1A	Skin Sensitization category 1A
STOT SE 3	Specific target organ toxicity (single exposure)
	Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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