

SP-120

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date: 02/01/2022 Date of issue: 09/23/2013

avantor

NuSil

Version: 3.0

SECTION 1: Identification

1.1. Product identifier

Product form	Mixture
Product Name	SP-120
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
ehs@nusil.com
www.nusil.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Dam. 1	H318
Asp. Tox. 1	H304
Aquatic Acute 3	H402

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

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS02



GHS05



GHS08

Signal word (GHS-US)

Danger

Hazard statements (GHS-US)

H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H318 - Causes serious eye damage
H402 - Harmful to aquatic life

Precautionary statements (GHS-US)

P210 - Keep away from heat, sparks, open flames, hot surfaces. - 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.
P264 - Wash hands, forearms, and other exposed areas thoroughly

SP-120**Safety Data Sheet**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

after handling.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory 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.

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 to extinguish.

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.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients**3.1. Substances**

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Solvent naphtha, petroleum, light aliphatic	(CAS-No.) 64742-89-8	80 - 90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 3, H402
Silicic acid (H ₄ SiO ₄), tetrapropyl ester	(CAS-No.) 682-01-9	< 10	Flam. Liq. 4, H227
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 (H ₄ SiO ₄), tetrakis(2-methoxyethyl) ester	(CAS-No.) 2157-45-1	< 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

SP-120**Safety Data Sheet**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

First-aid measures after skin contact	Immediately remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/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

Symptoms/effects	Causes skin irritation. Causes serious eye damage. May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	Prolonged exposure may cause irritation.
Symptoms/effects after skin contact	Redness, pain, swelling, itching, burning, dryness, and dermatitis.
Symptoms/effects after eye contact	Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/effects after ingestion	Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.
Chronic symptoms	None expected under normal conditions of use.

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

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

SECTION 5: Fire-Fighting measures**5.1. Extinguishing media**

Suitable extinguishing media	Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂). 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.
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.
Firefighting instructions	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.
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. 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 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.

SP-120

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.2. For emergency responders

Protective equipment
Emergency procedures

Equip cleanup crew with proper protection.
Ventilate area. Eliminate ignition sources. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental precautions

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

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. 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 processed
Precautions for safe handling

Handle empty containers with care because residual vapors are flammable.

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapors, mist, spray. Take precautionary measures against static discharge. Use only non-sparking tools. Do not get in eyes, on skin, or on clothing.

Hygiene measures

Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

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.

7.3. Specific end use(s)

To improve adhesion of cured systems to various substrates. 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

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

Personal protective equipment

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



Materials for protective clothing

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

Hand protection

Wear protective gloves.

Eye protection

Chemical safety goggles.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

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

Other information

When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Liquid
Appearance	: Clear to Amber
Odor	: Solvent
Odor threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 99 °C (210 °F)
Flash point	: 17 °C (63 °F)
Auto-ignition Temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: 25 mm Hg
Relative vapor density at 20 °C	: 3.8
Specific Gravity	: 0.76
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Viscosity	: No data available

9.2. Other information

VOC content > 80%

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Extremely 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

Carbon oxides (CO, CO₂). May release flammable gases. Hydrocarbons. Silicon oxides. Metal oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified

Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	3000 mg/kg
Silicic acid (H4SiO4), tetrapropyl ester (682-01-9)	
LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	10 mg/l/4h
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 : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard May be fatal if swallowed and enters airways.

Symptoms/effects after inhalation Prolonged exposure may cause irritation.

Symptoms/effects after skin contact Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/effects after eye contact Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/effects after ingestion Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic symptoms None expected under normal conditions of use.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Harmful to aquatic life.

Ecology - water Harmful to aquatic life.

SP-120**Safety Data Sheet**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

EC50 Daphnia 1 680 mg/l

12.2. Persistence and degradability**SP-120**

Persistence and degradability Not established.

12.3. Bioaccumulative potential**SP-120**

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**

Product/Packaging disposal recommendations

Dispose of contents/container in accordance with 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

**14.2. In Accordance with IMDG**

Proper Shipping Name :PETROLEUM PRODUCTS, 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

MFAG Number :128

**14.3. In Accordance with IATA**

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

Packing Group :II

Identification Number :UN1268

Hazard Class :3

Label Codes :3

ERG Code (IATA) :3H



SP-120**Safety Data Sheet**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

SP-120	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard

15.2. US State 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
Silicic acid (H4SiO4), tetrapropyl ester (682-01-9)
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
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 02/01/2022

Revision

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:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
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
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3

SP-120**Safety Data Sheet**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
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
H402	Harmful to aquatic life

NFPA health hazard

NFPA fire hazard

NFPA reactivity

HMIS III Rating

Health

Flammability

Physical

2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

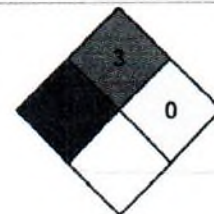
3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

0 - Material that in themselves are normally stable, even under fire conditions.

2 Moderate Hazard - Temporary or minor injury may occur

3 Serious Hazard

0 Minimal Hazard



The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL TECHNOLOGY LLC AND ITS AFFILIATED COMPANIES ("NUSIL") EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY. This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.