

**Safety Data Sheet**  
**R520 Natural Silicone Sealant**

**Revision Date: 04/18/2025**

**Section 1. Identification**

**1.1. Product identifier**

**Product Identity** R520 Neutral Silicone sealant

**Alternate Names** Neutral Silicone Sealant

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

**Intended use** N/A

**1.3. Details of the supplier of the safety data sheet**

**Company Name** FINESIL TECHNOLOGY INC.  
No. 78, Guangfu N. Rd., Hukou Township, Hsinchu  
County 303036, Taiwan (R.O.C.)

**Emergency** +886 918 863 772

**24 hour Emergency Telephone No.** +886 3 5982929

**Customer Service:** +886 3 5982929

**Section 2. Hazard(s) identification**

**2.1. Classification of the substance or mixture**

Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Carc. 1A;H350	May cause cancer.
Repr. 1;H360	May damage fertility or the unborn child.
STOT RE 2;H373	May cause damage to organs through prolonged or repeated exposure. Specific Target Organs
Aquatic Chronic 3;H412	Harmful to aquatic life with long lasting effects.

**2.2. Label elements**



**Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

### **[Prevention]**

P201 Obtain special instructions before use.

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

P260 Do not breathe dust, fume, mist, vapors or spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

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

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and face protection.

### **[Response]**

P301+310 IF SWALLOWED: Immediately call a POISON CENTER, doctor or physician.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+313 IF exposed or concerned: Get medical advice or attention.

P314 Get Medical advice or attention if you feel unwell.

P331 Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice or attention.

P337+313 If eye irritation persists: Get medical advice or attention.

P362 Take off contaminated clothing and wash before reuse.

### **[Storage]**

P405 Store locked up.

### **[Disposal]**

P501 Dispose of contents or container in accordance with local and national regulations.

<b>Section 3. Composition/information on ingredients</b>
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This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Polydimethylsiloxane hydroxy terminated CAS Number: 70131-67-8	>= 50 - <= 90	Not Classified	----
Synthetic Amorphous, Pyrogenic Silica CAS Number: 112945-52-5	>=2.1 - <= 8.5	Combustible Dust Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335	----
2-Butanone, O,O',O''-(methylsilylidyne)trioxime CAS Number: 22984-54-9	>=2.9 - <= 4.9	Skin Sens. 1B;H317 Eye Irrit. 2;H319 Carc. 1B;H350 STOT RE 2;H373	----
3-Aminopropyltriethoxysilane CAS Number: 919-30-2	>=0.68 - <=1.3	Acute Tox. 4;H302 Skin Corr. 1B;H314 Skin Sens. 1;H317	----
N-(3-(Trimethoxysilyl) propyl)-1,2- ethanediamine CAS Number: 1760-24-3	>=0.54 - <=1.1	Skin Sens. 1B;H317 Eye Dam. 1;H318 Acute Tox. 4;H332 STOT RE 2;H373	----
Vinyltris(methylethylketoximino)silane CAS Number: 2224-33-1	>=0.15 - <= 0.9	Skin Sens. 1B;H317 Eye Dam. 1;H318 STOT RE 2;H373 Carc. 1A;H350	----
Dibutyltin dilaurate CAS Number: 77-58-7	>=0.04 - <=0.9	Eye Irrit. 2;H319 Skin Sens. 1;H317 Muta. 2;H341 Repr. 1;H360 STOT SE 1;H370 STOT RE 1;H372 Aquatic Chronic 1;H410	----

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

\*PBT/vPvB - PBT-substance or vPvB-substance.

The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### **4.2. Most important symptoms and effects, both acute and delayed**

<b>Overview</b>	No specific symptom data available. Treat symptomatically. Check section 2.2 (GHS Label Elements) for further details.
<b>Eyes</b>	Causes serious eye irritation.
<b>Skin</b>	May cause an allergic skin reaction. Causes skin irritation.

### **Section 5. Fire-fighting measures**

#### **5.1. Extinguishing media**

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

Unsuitable extinguishing media: Do not use water jet.

#### **5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition: No hazardous decomposition data available.

Do not breathe dust, fume, mist, vapors or spray.

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

#### **5.3. Advice for fire-fighters**

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

**ERG Guide No.** ----

### **Section 6. Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet.

Promptly remove soiled clothing and wash thoroughly before reuse.

## 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

## 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

# Section 7. Handling and storage

## 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]

## 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No available information

Check section 2.2 (GHS Label Elements) for further details. - [Storage]

## 7.3. Specific end use(s)

No available information

# Section 8. Exposure controls / personal protection

## 8.1. Control parameters

### Exposure

CAS No.	Ingredient	Source	Value
77-58-7	Dibutyltin dilaurate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
919-30-2	3-Aminopropyltriethoxysilane	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
1760-24-3	N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
2224-33-1	Vinyltris(methylethylketoximino)silane	OSHA	No Established Limit
		ACGIH	No Established Limit

		NIOSH	No Established Limit
22984-54-9	2-Butanone, O,O',O''-(methylsilyldiylidene)trioxime	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
70131-67-8	Polydimethylsiloxane hydroxy terminated	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Contains mineral oil. The exposure limits for oil mist are 5 mg/m<sup>3</sup> OSHA PEL and 5 mg/m<sup>3</sup> ACGIH.

## 8.2. Exposure controls

<b>Respiratory</b>	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
<b>Eyes</b>	Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.
<b>Skin</b>	Avoid skin contact. Wear PVC or rubber gloves to keep skin contact to a minimum. Refer to the manufacturer's recommendations regarding the suitability of any gloves used.
<b>Engineering Controls</b>	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
<b>Other Work Practices</b>	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details.

## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Paste
<b>Odor</b>	Slight
<b>Odor threshold</b>	No available information
<b>pH</b>	No available information

<b>Melting point / freezing point</b>	No available information
<b>Initial boiling point and boiling range</b>	No available information
<b>Flash Point</b>	No available information
<b>Evaporation rate (Ether = 1)</b>	No available information
<b>Flammability (solid, gas)</b>	No available information
<b>Upper/lower flammability or explosive limits</b>	No available information
<b>Vapor pressure (Pa)</b>	No available information
<b>Vapor Density</b>	No available information
<b>Relative Density</b>	1.01
<b>Solubility in Water</b>	No available information
<b>Partition coefficient n-octanol/water (Log Kow)</b>	No available information
<b>Auto-ignition temperature</b>	No available information
<b>Decomposition temperature</b>	No available information
<b>Viscosity (cSt)</b>	No available information
<b>VOC Content</b>	No available information
<b>Oxidising properties</b>	No available information
<b>Explosive properties</b>	No available information

## 9.2. Other information

No other relevant information.

## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No available information

### 10.4. Conditions to avoid

Avoid high temperatures and contact with incompatible material

### 10.5. Incompatible materials

No available information

### 10.6. Hazardous decomposition products

No hazardous decomposition data available.

## Section 11. Toxicological information

## Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Polydimethylsiloxane hydroxy terminated - (70131-67-8)	No data available.	No data available.	No data available.	No data available.	No data available.
Synthetic Amorphous, Pyrogenic Silica - (112945-52-5)	No data available.	No data available.	No data available.	No data available.	No data available.
2-Butanone, O,O',O''-(methylsilyldiene)trioxime - (22984-54-9)	2,453.00, Rat - Category: 5	> 2,000.00, Rat - Category: NA	No data available.	No data available.	No data available.
3-Aminopropyltriethoxysilane - (919-30-2)	2,830.00, Rat - Category: 5	4,290.00, Rabbit - Category: 5	No data available.	> 7.35, Rat - Category: NA	No data available.
N-(3-(Trimethoxysilyl) propyl)-1,2- ethanediamine - (1760-24-3)	2,295.00, Rat - Category: 5	> 2,000.00, Rabbit - Category: NA	No data available.	> 1.49, Rat - Category: NA	No data available.
Vinyltris(methylethylketoximino)silane - (2224-33-1)	> 2,000.00, Rat - Category: NA	> 2,009.00, Rat - Category: NA	No data available.	No data available.	No data available.
Dibutyltin dilaurate - (77-58-7)	2,071.00, Rat - Category: 5	> 2,000.00, Rat - Category: NA	No data available.	No data available.	No data available.

## Carcinogen Data

CAS No.	Ingredient	Source	Value
77-58-7	Dibutyltin dilaurate	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
919-30-2	3-Aminopropyltriethoxysilane	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
1760-24-3	N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
2224-33-1	Vinyltris(methylethylketoximino)silane	OSHA	Regulated Carcinogen: No;



		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
22984-54-9	2-Butanone, O,O',O''-(methylsilylidyne)trioxime	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
70131-67-8	Polydimethylsiloxane hydroxy terminated	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
		ACGIH	No Established Limit
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	1A	May cause cancer.
Reproductive toxicity	1	May damage fertility or the unborn child.
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

## Section 12. Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

## Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Polydimethylsiloxane hydroxy terminated - (70131-67-8)	No data available.	No data available.	No data available.
Synthetic Amorphous, Pyrogenic Silica - (112945-52-5)	No data available.	No data available.	No data available.
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime - (22984-54-9)	843.00, Pimephales promelas	201.00, Daphnia magna	16.00, Raphidocelis subcapitata
3-Aminopropyltriethoxysilane - (919-30-2)	> 934.00, Danio rerio	> 100.00, Daphnia magna	> 1,000.00, Desmodesmus subspicatus
N-(3-(Trimethoxysilyl) propyl)-1,2- ethanediamine - (1760-24-3)	597.00, Danio rerio	81.00, Daphnia magna	8.80, Raphidocelis subcapitata
Vinyltris(methylethylketoximino)silane - (2224-33-1)	843.00, Pimephales promelas	201.00, Daphnia magna	15.00, Raphidocelis subcapitata
Dibutyltin dilaurate - (77-58-7)	21.20, Danio rerio	2.55, Daphnia magna	> 1.00, Desmodesmus subspicatus

## 12.2. Persistence and degradability

There is no data available on the preparation itself.

## 12.3. Bioaccumulative potential

No available information

## 12.4. Mobility in soil

No available information

## 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

## 12.6. Other adverse effects

No available information

## Section 13. Disposal considerations

## 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
<b>14.1. UN number</b>	Not Regulated	Not Regulated	Not Regulated

<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable <b>Sub Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>	Marine Pollutant: No;		
<b>14.6. Special precautions for user</b>	No available information		

## Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

### Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
1760-24-3	N-(3-(Trimethoxysilyl) propyl)-1,2-ethanediamine	Yes		ACTIVE
22984-54-9	2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	Yes		ACTIVE
919-30-2	3-Aminopropyltriethoxysilane	Yes		ACTIVE
77-58-7	Dibutyltin dilaurate	Yes		ACTIVE
70131-67-8	Polydimethylsiloxane hydroxy terminated	Yes	UVCB XU	ACTIVE
112945-52-5	Synthetic Amorphous, Pyrogenic Silica	No		
2224-33-1	Vinyltris(methylethylketoximino)silane	Yes		ACTIVE

### EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

<b>Section 16. Other information</b>
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**Revision Date**                42/18/2025

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

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