



# Safety Data Sheet

**Product Name: Sparko High Tech 100% Neutral  
Cure Silicone Sealant (all colors)**

Revision: 01 January 2020

## SECTION 1. COMPANY IDENTIFICATION

1.1 Product Name : Sparko High Tech 100% Neutral Cure Silicone Sealant (all colors)  
1.2 Chemical Classification : Silicone Sealant

### Recommended use of the chemical and restrictions on use

Recommended use : Adhesive, binding agents

## SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture  
Serious eye damage/eye irritation : Category 2A  
Skin sensitization : Category 1  
2.2 Label element  
Pictogram

Signal word : Warning  
Hazard statements  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
Precautionary statements

### Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/ eye protection/ face protection.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards  
None known.

## SECTION 3. COMPOSITION

Substance / Mixture: Mixture

Chemical name	CAS No.	Concentration (%w/w)
Silicon dioxide	7631-86-9	>= 1 - < 10
Amorphous fumed silica	112945-52-5	>= 1 - < 10
Methyltri(ethylmethyletoxime)silane	22984-54-9	>= 1 - < 10
Vinyltri (methylethyletoxime) silane	2224-33-1	>= 1 - < 10
3-Aminopropyltriethoxysilane	919-30-2	>= 0.1 - < 1



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### SECTION 4. FIRST AID MEASURES

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#### 4.1 Description of first aid measures

Inhalation	If inhaled, remove to fresh air. Get medical attention.
Skin contact	Immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lens, if worn. Get medical attention.
Ingestion	DO NOT induce vomiting. Rinse mouth thoroughly with water. Get medical attention.

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

May cause an allergic skin reaction. Causes serious eye irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needs

Treat symptomatically and supportively.

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### SECTION 5. FIRE FIGHTING MEASURES

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#### 5.1 Extinguishing media

Suitable extinguishing media: Water spray, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), and dry chemical

Unsuitable extinguishing media: None known.

#### 5.2 Special hazards arising from the substance and mixture

Hazardous combustion products: Carbon oxides, Silicon oxides, Nitrogen oxides (NO<sub>x</sub>),

#### 5.3 Special protective equipment and precautions for fire-fighters

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for firefighters: Wear self-contained breathing apparatus. Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

#### 6.2 Environmental precautions

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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### SECTION 7. HANDLING AND STORAGE

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#### 7.1 Precautions for safe handling

Do not get on skin or clothing. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from water. Protect from moisture.

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

Keep in properly labeled containers. Do not store with strong oxidizing agent.



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### 8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silicon dioxide	7631-86-9	TWA (Dust)	80 mg/m <sup>3</sup> /‰SiO <sub>2</sub>	TH OEL
Amorphous fumed silica	112945-52-5	TWA (Dust)	80 mg/m <sup>3</sup> /‰SiO <sub>2</sub>	TH OEL

##### 8.2 Appropriate engineering controls

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

##### 8.3 Personal protective equipment

Eye/ face protection

Safety goggles.

Skin/ body protection

Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (chemical-resistant gloves, aprons, boots, etc).

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often. Wash hands before breaks and at the end of workday.

Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Filter type combined particulates and organic vapour type.

##### 8.4 Work/ Hygienic practices

Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPETERIES

a) Appearance and color	Paste in various color
b) Odor	Slightly odor
c) Odor threshold	No data available
d) pH	Not applicable
e) Melting point/ freezing point	No data available
f) Initial boiling point and boiling	Not applicable
g) Flash point	100 °C (Method: closed cup)
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	Not classified as a flammability hazard
j) Upper explosion limit	No data available
k) Lower explosion limit	No data available
l) Vapour pressure	Not applicable
m) Relative vapour density	No data available
n) Relative density	1.02 ± 0.03
o) Solubility	Insoluble in water
p) Partition coefficient: n-octanol/ water	No data available
q) Auto-ignition temperature	No data available
r) Decomposition temperature	No data available
s) Viscosity, dynamic	Not applicable
t) Explosive properties	Not explosive
u) Oxidizing properties	The substance or mixture is not classified as oxidizing.

#### SECTION 10. STABILITY AND REACTIVITY



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### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.

### 10.4 Conditions to avoid

Exposure to moisture  
Incompatible materials  
Oxidizing agents, water

### 10.5 Hazardous decomposition products

Contact with water or humid air: Ethyl methyl ketoxime  
Thermal decomposition: Formaldehyde

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on the likely routes of exposure

Skin contact  
Eye contact  
Ingestion

### 11.2 Symptoms related to physical, chemical, and toxicological characteristics

Inhalation No specific data.  
Skin contact May cause an allergic skin reaction.  
Eye contact Cause serious irritation.  
Ingestion No specific data.

### 11.3 Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure/ long term exposure  
Potential immediate effects Not available.  
Potential delayed effects Not available.  
Potential chronic health effects Not available.

### 11.4 Numerical measures of toxicity

Acute toxicity

Components	LD50 (oral rat)	LD50 (Dermal rabbit)	LC50 (Inhalation rat ) 4 h
Amorphous fumed silica	> 20,000 mg/kg	> 5,000 mg/kg	-
Silicon dioxide	> 3,300 mg/kg	> 5,000 mg/kg	> 2.08 mg/l
Methyltri(ethylmethylketoxime)silane	> 2,520 mg/kg	-	-
Vinyltri (methylethylketoxime) silane	> 2,000 mg/kg	> 2,000 mg/kg	-
3-Aminopropyltriethoxysilane	1.57 ml/kg	4.29 ml/kg	-
Ethyl methyl ketoxime	2,326 mg/kg	> 1,000 - 1,800 mg/kg	> 4.83 mg/

### Classification of health hazards

Acute oral toxicity estimate	Not classified
Acute dermal toxicity estimate	Not classified
Acute inhalation toxicity estimate	Not classified
Skin corrosion / irritation	Category 1
Serious eye damage/eye irritation	Category 2A
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	Not classified



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#### SECTION 12. ECOLOGICAL INFORMATION

##### 12.1 Ecotoxicity

Acute aquatic toxicity

No known ecotoxicological effects.

Components	Fish LC50 (96 h)	Crustacean EC50 (48 h)	Algae ErC50 (72 h)
Methyltri(ethylmethylketoxime)silane	> 120 mg/l	> 120 mg/l	94 mg/l
Vinyltri (methylmethylketoxime) silane	> 120 mg/l		
3-Aminopropyltriethoxysilane	> 934 mg/l	331 mg/l	
Ethyl methyl ketoxime	> 100 mg/l	201 mg/l	11.8 mg/l

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No known significant effects or critical hazards.

#### SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste from residues:

Dispose of in accordance with local regulations.

13.2 Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified, dispose of as unused product.

#### SECTION 14. TRANSPORT INFORMATION

14.1 UNRTDG

: Not regulated as a dangerous good.

14.2 IATA-DGR

: Not regulated as a dangerous good.

14.3 IMDG-Code

: Not regulated as a dangerous good.

#### SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Hazardous Substance Act B.E. 2535 :Not applicable

Emergency Decree on Controlling the Use of Volatile Substances B.E. 2533 :Not applicable

The components of this product are reported in the following inventories:

KECI :All ingredients listed, exempt or notified.

REACH :All ingredients (pre-)registered or exempt.

TSCA :All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS :All ingredients listed or exempt.

IECSC :All ingredients listed or exempt.

PICCS :All ingredients listed or exempt.

DSL :All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

NZIoC :All ingredients listed or exempt.

#### SECTION 16. OTHER INFORMATION

For Industrial Only

This materials safety data sheet is offered solely for your information, consideration and investigation.



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