



MATERIAL SAFETY DATA SHEET

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## SILICONE SEALANT



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### 1. IDENTIFICATION

#### PRODUCT IDENTIFIER

Product Name: Silicone Sealant Acetoxy  
CAS No.: Not Applicable  
EC No.: Not Applicable  
Molecular Formula: Not Applicable  
Recommended Use: Sealant  
Use Restrictions: None  
Brand: CFC TOOLS®  
Address: 54 Tanjong Penjuru Singapore 609035  
Phone: +65 6294 2066  
Website: [www.cfctools.com](http://www.cfctools.com)

### 2. HAZARD IDENTIFICATION

#### Hazard Classification According to GHS

Flammable Liquid: CAT 4  
Sensitization - Skin: CAT 1  
Eye Damage/Irritation: CAT 1

#### GHS Label Elements

Hazard pictogram:



Signal Word:

**DANGER**

#### Hazard Statements

H227 Combustible Liquid  
H317 May cause an allergic skin reaction  
H318 Cause serious eye damage

#### Precautionary Statements

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
P261 Avoid breathing gas/mist/vapour/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P264-P265 Wash hands and other parts of the body (if related) thoroughly after handling. Do not touch eyes.

### Response

P317 Get medical help.  
P321 Specific treatment  
P302+P352 If on skin: Wash with plenty of water.  
P305+P354+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P317 If skin irritation or rash occur. Get medical help  
P362+P364 Take off contaminated clothing and wash before reuse.  
P370+P378 In case of fire: Use appropriate extinguishing media in section 5 to extinguish.  
If you feel unwell: Get medical advice/attention.

### Storage

P403 Store in a well-ventilated place.

### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

### Hazard Description

**Physical and chemical hazards** Combustible liquids

### Health hazards

Inhaled Inhalation of product may produce adverse health effects or irritation of the respiratory tract.  
Ingestion Accidental ingestion of the product may be harmful to the health of the individual.  
Skin contact The product may cause an allergic skin reaction following direct contact with the skin.  
Eyes The product can produce severe chemical burns to the eye following direct contact.

**Environmental Hazards** Refer to Chapter 12



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### 3. COMPOSITION INFORMATION

Component	CAS No.	EC No.	Concentration (wt, %)
Silicone rubber	63148-60-7	613-154-4	42.9
Calcium carbonate	471-34-1	207-439-9	36
Dimethicone	9006-65-9	618-433-4	7
Vinyltris(methylethylketoxime)sil	2224-33-1	218-747-8	5
Silicon dioxide	7631-86-9	231-545-4	5
$\gamma$ -Aminopropyl triethoxysilane	919-30-2	213-048-4	2
Titanium Dioxide	13463-67-7	236-675-5	2
Tetrabutyl Titanate	5593-70-4	227-006-8	0.1

### 4. FIRST-AID MEASURES

#### Description of first aid measures

Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact:	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion:	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation:	For over-exposure to airborne dust or fumes, move patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to have trouble breathing, consult a physician.

#### Most Important Symptoms

Refer to section 11

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

1. Treat symptomatically
2. Symptoms may be delayed

### 5. FIRE FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media Use extinguishing media suitable for surrounding area

Unsuitable extinguishing media There is no restriction on the type of extinguisher which may be used.



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### Specific hazards arising from the substance or mixture

Development of hazardous combustion gases or vapor possible in the event of fire.

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

1. Wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2. Fight fire from a safe distance, with adequate cover.
3. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

1. Use personal protective equipment, do not inhale gas/mist/vapour/spray.
2. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
3. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Environmental precautions

1. Prevent further leakage or spillage if safe to do so.
2. Do not discharge into the environment

### Methods and materials for containment and cleaning up

1. Isolate the source of the leak.
2. Isolate leakage in ventilated place.
3. Absorb spilled material with dry sand or absorbent. In case of large amount of spillage, contain with bund.
4. Remove any source of ignition. Use spark-proof tools and explosion-proof equipment.
5. Contain spillage, and collect with intrinsically safe vacuum cleaner or with wet-brushing method.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

1. Handle product in well-ventilated area.
2. Wear protective equipment.
3. Avoid contact with skin and eyes.
4. Keep away from heat/sparks/open flames/ hot surfaces.



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### Conditions for safe storage, including any incompatibilities

1. Keep product closed.
2. Keep product in dry, cool and well-ventilated space.
3. Keep away from heat/sparks/open flames/hot surfaces.
4. Do not store with incompatible materials and provision products.

### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
<b>Calcium carbonate</b>	USA - OSHA		15		
	Latvia		6		
	Ireland		10		
	France		10		
	Canada - Québec		10		
	Australia		10		
<b>Silicon dioxide</b>	South Korea		10		
	New Zealand		1		
	Ireland		6		
	Germany (AGS)		4		
	Denmark		2		4
	Australia		2		
<b>Titanium Dioxide</b>	USA - OSHA		15		
	South Korea		10		
	Ireland		10		
	France		11		
	Denmark		6		12
	Australia		10		

Biological Limit Values: NIL

Monitoring Methods:

1. EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2. GBZ/T 300 series standard Determination of toxic substances in workplace air.

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### Engineering Control

1. Ensure adequate ventilation, especially in confined areas.
2. Ensure that eyewash stations and safety showers are close to the workstation location.
3. Set up emergency exit and necessary risk-elimination area.
4. Handle in accordance with local industrial hygiene and safety practice.

### Personal Protection Equipment



Wear appropriate anti-corrosion goggles.

Wear acid and alkali resistant chemical protective gloves.

Wear appropriate personal respiratory protective equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Physical state	Liquid (paste)
Colour	Various
Odor	Slight
Odor threshold	No information
pH	7
Melting point/Freezing point (°C)	No information
Boiling point (°C)	No information
Flash point (Closed cup, °C)	>70
Evaporation rate	Not applicable
Flammability	No information
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available Lower limit: No information available
Vapor pressure	No information
Relative vapour density(Air = 1)	No information
Relative density(Water=1)	No information
Solubility	No information
n-octanol/water partition coefficient	No information
Auto-ignition temperature(°C)	No information
Decomposition temperature(°C)	No information
Kinematic viscosity	Not applicable
Particle characteristics	No information



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### 10. STABILITY AND REACTIVITY

#### Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	Reacts with active metals and poses an explosive potential or fire.
Conditions to avoid Incompatible materials	Incompatible materials, heat, flame and spark.  Active metal, alcohols, aldehydes, carbon disulfide, carbon, sulfur, phosphorus, boron, reducing agents, metallic acetylenes and metallic carbonates.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Component	LD50(oral)	LD50(dermal)	LC50(inhalation,4 h)
Tetrabutyl Titanate	3122mg/kg(Rat)	No information available	No information available
Dimethicone	> 20000mg/kg(Mouse)	No information available	No information available
Calcium carbonate	6450mg/kg(Rat)	No information available	No information available
γ-Aminopropyl triethoxysilane	1780mg/kg(Rat)	No information available	No information available



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### Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Silicone rubber	Not Listed	Not Listed
Calcium carbonate	Not Listed	Not Listed
Dimethicone	Not Listed	Not Listed
Vinyltris(methylethylketoxime)sil	Not Listed	Not Listed
Silicon dioxide	Category 3	Not Listed
γ-Aminopropyl triethoxysilane	Not Listed	Not Listed
Titanium Dioxide	Category 2B	Not Listed
Tetrabutyl Titanate	Not Listed	Not Listed

### Others

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Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Causes serious eye damage(Category 1)
Skin sensitization	May cause an allergic skin reaction(Category 1)
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

## 12. ECOLOGICAL INFORMATION

**Acute aquatic toxicity**                      No information available

**Chronic aquatic toxicity**                      No information available

#### **Persistence and degradation**

Component	Persistence (water/soil)	Persistence (air)
Vinyltris(methylethylketoxime)sil	Low	Low
Silicon dioxide	Low	Low
γ-Aminopropyl triethoxysilane	High	High
Titanium Dioxide	High	High
Tetrabutyl Titanate	Low	Low



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### Bioaccumulative Potential

Component	Bioaccumulative potential	Comments
Vinyltris(methylethylketoxime)sil	Low	BCF=6
Silicon dioxide	Low	Log Kow=0.5294
γ-Aminopropyl triethoxysilane	Low	BCF=5.4
Titanium Dioxide	Low	BCF=10
Tetrabutyl Titanate	Low	Log Kow=0.841

### Mobility in Soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
Vinyltris(methylethylketoxime)sil	Low	130.8
Silicon dioxide	Low	23.74
γ-Aminopropyl triethoxysilane	Low	12150
Titanium Dioxide	Low	23.74
Tetrabutyl Titanate	Medium	2.443

### Result of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Calcium carbonate	Not applicable
Silicon dioxide	Not PBT/vPvB
γ-Aminopropyl triethoxysilane	Not PBT/vPvB
Titanium Dioxide	Not applicable
Tetrabutyl Titanate	Not PBT/vPvB

### 13. DISPOSAL CONSIDERATION

Waste chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section waste chemicals and contaminated packaging.



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### 14. TRANSPORT INFORMATION

Transporting Label	Not applicable
IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### 15. REGULATORY INFORMATION

International chemical inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
Silicone rubber	x	x	x	√	x	x	x	x	x
Calcium carbonate	√	√	√	√	√	√	√	√	√
Dimethicone	x	x	√	√	√	√	x	√	x
Vinyltris(methylethylketoxime)sil	√	√	√	√	√	√	√	√	√
Silicon dioxide	√	√	√	√	√	√	√	√	√
γ-Aminopropyl triethoxysilane	√	√	√	√	√	√	√	√	√
Titanium Dioxide	√	√	√	√	√	√	√	√	√
Tetrabutyl Titanate	√	√	√	√	√	√	√	√	√

[EINECS]	European Inventory of Existing Commercial Chemical Substances
[TSCA]	United States Toxic Substances Control Act Inventory
[DSL]	Canadian Domestic Substances List
[IECSC]	China Inventory of Existing Chemical Substances
[NZIoC]	New Zealand Inventory of Chemicals
[PICCS]	Philippines Inventory of Chemicals and Chemical Substances
[KECI]	Korea Existing Chemicals Inventory
[AIIC]	Australia Inventory of Industrial Chemicals (AIIC)
[ENCS]	Japan Inventory of Existing & New Chemical Substances

Note:

“√” Indicates that the substance included in the regulations.

“x” No data or not included in the regulations.

### 16. OTHER INFORMATION

#### Information on revision

Creation Date 2022/06/01

Revision Date 2025/06/01

Reason for revision -



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### Reference

1. IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
2. IARC, website: <http://www.iarc.fr/>
3. OECD: The Global Portal to Information on Chemical Substances, website: <https://www.chemportal.org/chemportal/substancesearch/index.action>
4. CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
5. NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
6. EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>
7. U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
8. Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>

### Abbreviations and Acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG	International Maritime Dangerous Goods
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvX	very Persistent, very Bioaccumulative
P <sub>ow</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

### Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.