Safety Data Sheet

Section 1 - Product and Company Identification

Material Name * **APOC 581 100% Silicone Patch & Roof Repair Sealant**

Product Code * AP-5812

Product Description * White Liquid.

Product Use * Elastomeric Roof Sealant

Synonyms * White Caulk Membrane

Manufacturer * Gardner Gibson
4701 E. 7th Avenue
Tampa, FL 33605
United States
www.gardner-gibson.com
Please use "Contact Us" form on the website

Telephone

Technical * 813-248-2101

Emergency * 800-424-9300

Emergency * 703-527-3887

Preparation Date * 4/26/2016

Last Revision Date * 4/26/2016

Section 2 - Hazards Identification

Emergency Overview

WARNING
Causes mild skin irritation. Harmful if swallowed.

Prevention Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash thoroughly after handling.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention.

Storage/Disposal Store in a closed container. Do not allow product to freeze. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Classification:
Eye irritation, Category 2A
Skin sensitization, Category 1
Carcinogenic, Category 2

Statements of Hazard:
Warning
H319 Causes serious eye irritation
H317 May cause allergic skin reaction
H351 Suspected of causing cancer

Precautions for Safe Handling:
P102 Keep out of the reach of children
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P261 Avoid breathing vapors or mists
P264 Wash hands thoroughly after handling
P272 Contaminated work clothing should not be allowed out of the workplace
P281 Use personal protective equipment as required

CAUTION - May cause eye and skin irritation on contact.

Physical Form	*	Liquid
Color	*	White Liquid.
Odor	*	Paint-Like Odor.
Flash Point	*	247 F(119.44 C)
OSHA	*	Irritant
WHMIS	*	Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B
GHS	*	Skin Corrosion/Irritation - Category 1 Serious Eye Damage, Eye Irritation - Category 2A Carcinogenic – Category 2B

NFPA: **Health : 2** **Flammability: 1** **Reactivity: 0** **Personal Protection: G**

Potential Health Effects

Inhalation

Acute (Immediate) * Inhalation of vapors or mists may cause central nervous system depression, light-headedness, headache, nausea and loss of coordination.

Chronic (Delayed) * Under normal conditions of use, no health effects are expected.

Skin

Acute (Immediate) * May cause irritation.

Chronic (Delayed) * Repeated and prolonged exposure to the skin may cause dermatitis.

Eye

Acute (Immediate) * Likely to cause eye irritation, burning, tearing, etc. on contact with the eyes. If swelling and irritation persist, seek medical attention.

Chronic (Delayed) * Direct contact may cause slight to moderate irritation.

Ingestion

Acute (Immediate) * May cause irritation. May affect the nervous system. May be harmful or fatal if swallowed.

Chronic (Delayed) * Repeated and prolonged exposure may cause gastrointestinal disturbances including diarrhea, nausea, and vomiting.

Carcinogenic Effects			
	CAS	**IARC**	**NTP**
Titanium Dioxide	13463-67-7	Group 2B-Possible Carcinogen	Evidence of Carcinogenicity

Section 3 - Composition/Information on Ingredients

Hazardous Components					
Chemical Name	**Identifiers**	**%(weight)**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Dimmethyl Polysiloxe	**CAS:** 70131-67-8	40.0%	LD50 Oral - rat - > 62.080 mg/kg		
Silica Quartz	**CAS:** 7631-86-9	35.0%			
Polydimethyl Siloxane	**CAS:** 63148-62-9	15.0%			
Methyltrimethyl Siloxane	**CAS:** 22984-54-9	3.0%	LD50 Oral, rat = 12,500 mg/kg		
Titanium Dioxide	**CAS:** 13463-67-7	6.0%	LD50 Oral, rat · 60 gm/kg		
Aminopropyl Trimethoxy Silane	**CAS:** 13822-56-5	1.0%	LD50 Oral - rat - > 62.080 mg/kg		

Non-Hazardous Components					
Chemical Name	**Identifiers**	**%(weight)**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**

This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

Section 4 - First Aid Measures

Inhalation * IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms continue, get medical attention.

Skin * Rinse skin immediately with plenty of water for 15-20 minutes. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

Eye * If eye irritation persists: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion * If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 - Fire Fighting Measures

Extinguishing Media	* LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
Unsuitable Extinguishing Media	* No data available.
Firefighting Procedures	* Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep unauthorized personnel away.
Unusual Fire and Explosion Hazards	* Product containers may rupture when exposed to extreme heat. Precaustions should be taken to prevent release of materials.
Hazardous Combustion Products	* Non-combustible, substance itself does not burn but may decompose upon heating to produce toxic fumes.
Protection of Firefighters	* Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Flash Point	* 247 F(119.4 C) CC (Closed Cup)

Section 6 - Accidental Release Measures

Personal Precautions	* Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Emergency Procedures	* Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up.
Environmental Precautions	* Avoid run off to waterways and sewers.
Containment/Clean-up Measures	* Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Use appropriate Personal Protective Equipment (PPE)
Prohibited Materials	* Avoid contact with strong oxidizing agents and acids.

Section 7 - Handling and Storage

Handling	* KEEP OUT OF THE REACH OF CHILDREN! Keep containers tightly closed when not in use.
Storage	* Avoid extreme temperatures and freezing. Keep container/package tightly closed and in a well-ventilated place.
Special Packaging Materials	* Not Applicable.
Incompatible Materials or Ignition Sources	* Avoid contact with strong oxidizing agents and acids.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

Pictograms *

Respiratory	* Use with adequate ventilation. A respirator is required. Use a NIOSH-approved air purifying respirator with organic vapor cartridge or supplied air respirator. This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.
Eye/Face	* Wear ANSI approved safety glasses with side shields or safety goggles.

Hands * Wear chemical resistant gloves with repeated or prolonged exposure.

Engineering Measures/Controls * Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Use precaution to protect building intake from fumes and vapors created outdoors.

Exposure Limits/Guidelines					
	Result	**Canada Ontario**	**Mexico**	**NIOSH**	**OSHA**
Titanium Dioxide (13463-67-7)	TWAs	10 mg/m3 TWAEV (total dust)	10 mg/m3 TWA (as Ti)	10 mg/m3 - TWA	15 mg/m3 TWA (total dust)
Silica (7631-86-9)	TWAs	80 mg/m3-TWAEV	80 mg/m3-TWA	80 mg/m3-TWA	80 mg/m3-TWA

Section 9 - Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	White liquid with heavy consistency.
Color	White Liquid.	Odor	Paint-Like Odor.
Taste	No data available.	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	No data available		
General Properties			
Boiling Point	>300 F	Melting Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	Not relevant
pH	8 @ 25 C(77 F)	Specific Gravity/Relative Density	1.04 Water=1
Density	8.660 lbs/gal @ 25 C(77 F)	Bulk Density	No data available
Water Solubility	Soluble 0 % @ 25 C(77 F)	Solvent Solubility	Not relevant
Viscosity	200,000 cps. @ 25 C(77 F)		
Volatility			
Vapor Pressure	5.3 mmHg (torr) @ 20 C(68 F)	Vapor Density	> 1 Air=1
Evaporation Rate	< 0.7 Ether = 1	VOC (Wt.)	No data available
VOC (Vol.)	<10 g/L	Volatiles (Wt.)	No data available
Volatiles (Vol.)	No data available		
Flammability			
Flash Point	>247 f	Flash Point Test Type	CC (Closed Cup)
UEL	No data available	LEL	No data available
Autoignition	No data available	Self-Accelerating Decomposition Temperature (SADT)	Not relevant
Heat of Combustion (ΔHc)	Not relevant	Burning Time	Not relevant
Flame Duration	Not relevant	Flame Height	Not relevant
Flame Extension	Not relevant	Ignition Distance	Not relevant
Environmental			
Half-Life	Not relevant	Octanol/Water Partition coefficient	Not relevant
Coefficient of Water	Not relevant	Bioaccumulation Factor	Not relevant
Bioconcentration Factor	Not relevant	Biochemical Oxygen Demand BOD/BOD5	Not relevant
Chemical Oxygen Demand	Not relevant	Persistence	Not relevant
Degradation	Not relevant		

Section 10 - Stability and Reactivity

Stability * Stable under normal temperatures and pressures.

Hazardous Polymerization * Hazardous polymerization not indicated.

Conditions to Avoid	* Excessive heat and freezing.
Incompatible Materials	* Strong oxidizers and acids.
Hazardous Decomposition Products	* No known issues under normal usage conditions.

Section 11 - Toxicological Information

Component Name	CAS	Data
Dimmethyl Polysiloxane	70131-67-8	**Acute Toxicity:** LD50 Oral - rat - > 62.080 mg/kg
Methyltrimethyl Siloxane	22984-54-9	**Acute Toxicity:** LD50 Oral, rat = 12,500 mg/kg
Titanium Dioxide	13463-67-7	**Acute Toxicity:** LD50 Oral, rat · 60 gm/kg
Aminopropyl Trimethoxy Silane	13822-56-5	**Acute Toxicity**: LD50 Oral - rat - > 62.080 mg/kg

Other Component Information

* IARC has concluded that the following chemicals in this product are carcinogenic to humans(Group 1): ACGIH has designated the following chemicals in this product as suspected human carcinogens (A2): silica, quartz. NTP has listed the following chemicals in this product as known human carcinogens:. Risk of cancer depends on duration and level of exposure to this product as a dust or aerosol mist.

Section 12 - Ecological Information

Ecological Fate	* No data available.
Persistence/Degradability	* No data available.
Bioaccumulation Potential	* No data available.
Mobility in Soil	* No data available.
Other Information	* Do not allow product exposure to the ground or into any waterway. Do not allow entry into municipal sewer systems.

Section 13 - Disposal Considerations

Product

* Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transportation Information

DOT - United States - Department of Transportation - Shipping Name: Not Regulated.

TDG - Canada - Transportation of Dangerous Goods - Shipping Name: Not Restricted.

IMO/IMDG - International Maritime Transport Shipping Name: Not Regulated.

International Air Transportation Association – Not Regulated

Section 15 - Regulatory Information

SARA Hazard Classifications * Acute, Chronic

State Right To Know					
Component	**CAS**	**MA**	**MN**	**NJ**	**PA**
Dimmethyl Polysiloxane	70131-67-8	Yes	Yes	Yes	Yes
Silica Quartz	7631-86-9	Yes	Yes	Yes	Yes
Polydimethyl Siloxane	63148-62-9	Yes	Yes	Yes	Yes
Methyltrimethyl Siloxane	22984-54-9	Yes	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	Yes	Yes	Yes	Yes
Aminopropyl Trimethoxy Silane	13822-56-5	Yes	Yes	Yes	Yes

Inventory			
Component	**CAS**	**EU EINECS**	**TSCA**
Dimmethyl Polysiloxe	70131-67-8	Yes	Yes
Silica Quartz	7631-86-9	Yes	Yes
Polydimethyl Siloxane	63148-62-9	Yes	Yes
Methyltrimethyl Siloxane	22984-54-9	Yes	Yes
Titanium Dioxide	13463-67-7	Yes	Yes
Aminopropyl Trimethoxy Silane	13822-56-5	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

Dimmethyl Polysiloxe	70131-67-8	D2B
Silica Quartz	7631-86-9	D2B
Methyltrimethyl Siloxane	22984-54-9	D2B
Titanium Dioxide	13463-67-7	D2A

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Silica Quartz	7631-86-9
Polydimethyl Siloxane	63148-62-9
Methyltrimethyl Siloxane	22984-54-9

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

Polydimethyl Siloxane	63148-62-9

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

Titanium Dioxide	13463-67-7
Aminopropyl Trimethoxy Silane	13822-56-5

Other Information	* WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Preparation Date	* 4/26/2016
Last Revision Date	* 4/26/2016
Disclaimer/Statement of Liability	* This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to verify the suitability and completeness of such information for particular use. Gardner-Gibson does not accept liability for any loss or damage that may occur from the use of this information.