GARDNER-GIBSON
4161 E. 7th AVENUE
TAMPA, FL, 33605
USA
813-248-2101

PRODUCT: ETERNA-KOTE S-100 SILICONE ROOF COATING **CODE: 5570**

SECTION 01: IDENTIFICATION

Supplier identifier..... Gardner-Gibson
4161 E. 7th Avenue
Tampa, FL 33605
USA
813-248-2101
Product identifier..... ETERNA-KOTE S-100 SILICONE ROOF COATING
Product code..... 5570
Product use..... Roof coating.
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666). CHEMTREC 1-800-424-9300.

SECTION 02: HAZARD IDENTIFICATION

Hazard classification..... Flammable Liquids — Category 4. Skin Irritation — Category 2. Eye Irritation — Category 2A.
Signal word..... WARNING.
Hazard statement..... H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements..... P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish. . P302+P352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific treatment (see section 4 of SDS). P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P403 Store in a well-ventilated place. P501 Dispose of contents/container to an approved waste disposal plant.
Other hazards..... None.
Comments..... Fillers are encapsulated and not expected to be released from product under normal conditions of use. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Titanium dioxide	13463-67-7	6
Methyltrimethylsiloxane	1185-55-3	3
Aminopropyltrimethoxysilane	13822-56-5	1
Crystalline silica, quartz	14808-60-7	0.5-1

SECTION 04: FIRST-AID MEASURES

Routes of exposure
Inhalation..... If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately. Call a poison center or physician.
Ingestion..... Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.
Skin contact..... Wash off with soap and water. Get medical attention if irritation develops and persists. Take off contaminated clothing and wash before reuse.
Eye contact..... Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. If irritation persists, contact a physician.

SECTION 04: FIRST-AID MEASURES

Most important symptoms and effects, both . acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Medical attention and special treatment.....: Note to physician: Treat according to symptoms (decontamination, vital functions), no known specific antidote. No special measures required.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media.....: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish. Do not use water jet as an extinguisher, as this will spread the fire.

Hazardous combustion products.....: The substances/groups of substances mentioned can be released in case of fire:. Harmful vapours. Carbon oxides. Nitrogen oxides (NOx). Silicone compounds.

Special protective equipment and precautions: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Move containers from fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.

Further information.....: During fire, gases hazardous to health may be formed. In a fire or if heated, a pressure increase will occur and the container may burst.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective clothing. Eliminate all sources of ignition. Ventilate area if indoors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. No action shall be taken involving any personal risk or without suitable training.

Environmental precautions.....: Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.

Methods and materials for containment and cleaning up: Ensure adequate ventilation. Cover spill area with suitable absorbent material (e.g., sand, earth, sawdust, vermiculite, Oil-Dri, Kitty Litter, etc.). Sweep up material being careful not to raise dust. Place in an appropriate disposal container and seal tightly. Contaminated absorbent material may pose the same hazards as the spilled product. Dispose of absorbed material in accordance with regulations.

SECTION 07: HANDLING AND STORAGE

Handling precautions.....: Avoid contact with skin and eyes. Keep container closed when not in use.

Storage needs.....: Keep in a dry, cool and well-ventilated place. Avoid exposure to excessive heat, light, and air for prolonged periods of time.

Materials to avoid.....: Keep away from oxidizing agents. Keep away from strong acids.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL PEL	OSHA PEL STEL	NIOSH REL
Titanium dioxide	10 mg/m3	not available	15 mg/m3	not available	not available
Methyltrimethylsiloxane	not available	not available	not available	not available	not available
Aminopropyltrimethoxysilane	not available	not available	not available	not available	not available
Crystalline silica, quartz	0.025 mg/m3 (respirable fraction)	not available	not available	not available	0.05 mg/m3 (respirable dust)

Engineering controls.....: Good general ventilation (typically 10 air changes per hour) should be used.

Individual protection measures

Eye/type.....: Safety glasses with side-shields.

Clothing/type.....: Wear suitable protective clothing. Normal work clothing (long sleeved shirts and long pants) is recommended.

Gloves/ type.....: Wear chemical resistant protective gloves.

Respiratory/type.....: Generally not required. Wear respiratory protection if ventilation is inadequate.

Hygiene measures.....: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Wear clean long legged, long sleeved work clothes. Remove soiled clothing and wash it thoroughly before reuse.

PRODUCT: ETERNA-KOTE S-100 SILICONE ROOF COATING **CODE: 5570**

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	coarse liquid.
Color	white.
Odour	pungent odour.
Odour threshold	no data available.
pH	8.
Melting point (ºC)	not applicable.
Freezing point (ºC)	no data available.
Initial boiling point (ºC)	no data available.
Flash point (ºC), Method	85 CC.
Evaporation rate	no data available.
Upper flammability limit (% vol)	no data available.
Lower flammability limit (% vol)	no data available.
Vapour pressure (mm Hg)	5.3.
Vapour density (air=1)	> 1.
Relative density/Specific Gravity	1.33.
Water solubility	dispersible.
Solubility in other solvents	no data available.
Partition coefficient — n-octanol/water	no data available.
Auto ignition temperature (ºC)	> 200 °C.
Thermal decomposition temperature	no data available.
Viscosity	4,000 cPs.
VOC g/l	<10.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions	No hazardous reactions when stored and handled according to instructions. The product is chemically stable.
Conditions to avoid	Exposure to air or moisture over prolonged periods. Prolonged heat/light/air exposure.
Incompatible materials	Acids, strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products if stored and handled as prescribed/indicated. Toxic gases/fumes may be given off during burning or thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Titanium dioxide	not available	> 10,000 mg/kg (oral-rat)
Methyltrimethylsiloxane	not available	12,500 mg/kg (oral-rat); >9,600 mg/kg (dermal-rabbit)
Aminopropyltrimethoxysilane	not available	2,970 mg/kg (oral-rat); 11,300 mg/kg (dermal-rabbit)
Crystalline silica, quartz	not available	500 mg/kg (oral-rat)

Routes of exposure

Inhalation	High airborne concentrations of vapors resulting from heating, misting or spraying may cause irritation of the respiratory tractand mucous membranes.
Ingestion	May cause irritation of the stomach.
Skin contact	Contact may cause skin irritation.
Eye contact	Irritating to eyes. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Acute effects

Acute oral toxicity	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.
Acute dermal toxicity	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.
Acute inhalation toxicity	Acute toxicity estimate : > 20 mg/l. Method: calculation method. Test atmosphere: vapour. Exposure time: 4 h. Virtually nontoxic by inhalation.
Skin corrosion/irritation	Result: Moderate skin irritation.
Serious eye damage/eye irritation	Result: Eye irritation.
Respiratory or skin sensitisation	Non-sensitizing.
Specific target organ toxicity (STOT) single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.
Aspiration hazard	No aspiration hazard expected.

Chronic toxicity/effects

Specific target organ toxicity (STOT) ... repeated exposure	Quartz and cristobalite: May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation). Exposures to respirable crystalline silica are not expected during the normal use of this product.

PRODUCT: ETERNA-KOTE S-100 SILICONE ROOF COATING **CODE: 5570**

SECTION 11: TOXICOLOGICAL INFORMATION

Germ cell mutagenicity.....	No known significant effects or critical hazards.
Carcinogenicity.....	In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1). Titanium dioxide is listed as IARC Group 2B (possibly carcinogenic to humans).
Reproductive toxicity.....	No known significant effects or critical hazards.
Remarks.....	Fillers are encapsulated and not expected to be released from product under normal conditions of use. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer . The product has not been tested. The statement has been derived from the properties of the individual components.

Remarks:

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity.....	May cause long-term adverse effects in the aquatic environment.
Persistence and degradability.....	The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
Bioaccumulative potential.....	No data available.
Mobility in soil.....	No data available.
Other adverse effects.....	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Waste disposal of substance.....	Dispose of in accordance with national, state and local regulations.
Container disposal	Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14: TRANSPORT INFORMATION

TDG classification.....	Not classified as a dangerous good under transport regulations.

SECTION 15: REGULATORY INFORMATION

WHMIS regulatory status.....	This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.
Canada inventory.....	All components are listed or exempted.

SECTION 16: OTHER INFORMATION

Disclaimer.....	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.
Prepared by:	CanChem Consultant
Preparation date.....	JUN 03/2017