

**13576 Desmond Street**  
**Pacoima, CA 91331 - USA**

**Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

1.1. Product Identifier: CS-3808 Part-A Class-A Base (all application times)  
 - Product Name: Room Temperature Silicone Base compound Part-A  
 - Product reference: CS-3808-CLASS A ALL

1.2. Product Use:  
 -Room Temperature Silicone

1.3. Manufacturer's Name:  
**CAGE Code: 14439**  
**Flamemaster Corp.**  
**Chem Seal Division**  
**13576 Desmond Street**  
**Pacoima, CA 91333 – USA**

1.3.1 Suppliers Name ( if not manufacturer )

Technical Contact:  
**Flamemaster Corp.**  
 Tel: 818-890-1401  
 Fax: 818-890-6001  
[www.flamemaster.com](http://www.flamemaster.com)

1.4. Emergency Telephone:  
 Chemtrec – Chemtrec International  
 800-424-9300 ( North America)  
 703-527-3887 (Outside North America))

Specification:	BMS-8-68	MMS-M138	BASE PART A	CLASS A	ALL
<b>NSN:</b>		5970-01-084-4932 CS3808 A2 GALLON			

**Section -2. HAZARD ( S ) IDENTIFICATION**

OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**CLASSIFICATION OF THE MIXTURE:**

- ASPIRATION HAZARD - (CATEGORY 1)
- ACUTE TOXICITY,ORAL - CATEGORY 4
- TOXIC TO REPRODUCTION - CATEGORY 2
- CARCINOGEN- CATEGORY 1A
- SPECIFIC TARGET ORGAN TOXICITY(REPEATED EXPOSURE) - Category 1
- TOXIC TO AQUATIC LIFE - CATEGORY 4

**GHS LABEL REQUIREMENTS**

**HAZARD PICTOGRAMS**



**SIGNAL WORD : DANGER**

**HAZARD STATEMENTS:**

- MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - (H304)
- SUSPECTED OF DAMAGING FERTILITY, H361f
- MAY CAUSE CANCER - (H350)
- CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H372
- MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - H413
- HARMFUL IF SWALLOWED - H302

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling,storage,use and disposal are beyond our control and may be beyond our knowledge.

#### SUPPLEMENTAL LABEL ELEMENTS:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of concentrations above recommended limits causes headaches, drowsiness and nausea and could lead to unconsciousness or possibly death.

Avoid any contact with skin or clothing and wash thoroughly after handling.

Emits toxic fumes when heated.

Sanding and grinding dust may be harmful if inhaled.

#### HAZARDS NOT OTHERWISE CLASSIFIED:

Prolonged or repeated exposure may dry skin and / or cause skin irritation.

In the event of sanding, grinding, or abrading:

H372 Causes damage to organs through prolonged or repeated exposure.

Full text of P statements with N° associated to this compound:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin: Wash with plenty of soap and water
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling,storage,use and disposal are beyond our control and may be beyond our knowledge.

---

---

**Section -3. COMPOSITION / INFORMATION ON INGREDIENTS**

---

---

**Chemical family :** Mixture of organic compounds

<b>HAZARDOUS INGREDIENTS</b>	<b>% By WEIGHT</b>	<b>CAS NUMBER</b>
Polysilicic Acid, Ethyl Ester	<10%	11099-06-2
Crystalline Silica	<30%	14808-60-7

---

---

**Section -4. FIRST-AID MEASURES**

---

---

**General:** When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

**Eye contact:** Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical attention.

**Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products. If skin irritation/sensitization occurs seek medical attention.

**Ingestion:** If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person.**

---

---

**Section -5. FIRE-FIGHTING MEASURES**

---

---

**Extinguishing agents**

**Recommended:** Universal resistant foam, CO<sub>2</sub>, water, powder.

**Agents to avoid:** None known

**Attention**

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

Do not allow run-off from fire fighting to enter drains or water courses.

Emits toxic fumes when heated.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

In case of inhalation of decomposition products released in a fire, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.

**HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE:** Carbon Monoxide, Carbon Dioxide (CO<sub>2</sub>), Formaldehyde (from oxidative degradation), Sulfur Oxides, Oxides of Carbon, Silicone Dioxide, Ethanol. Silica when exposed to hydrofluoric acid will dissolve and produce a corrosive gas, silicone tetrafluoride.

---

---

**Section -6. ACCIDENTAL RELEASE MEASURES**

---

---

Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean-up with a detergent/ water mix ; avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

---

---

**Section -7. HANDLING AND STORAGE**

---

---

**7.1 Handling:**

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy/while nursing.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

**7.2 Storage:**

Observe label precautions. Store at 50° F max. in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

---

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

---

**8.1 Engineering measures:**

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

**8.2 Exposure limits****Work place exposure limits ( 8 hour )**

Substance	OSHA	ACGIH TLV
SILICA (CRYSTALLINE)	0.1mg m <sup>3</sup>	0.025 mg m <sup>3</sup> TWA
KROMA RED IRON OXIDE	10 mg/m <sup>3</sup> (fume)	5 mg/m <sup>3</sup> (respirable faction)
	15 mg/m <sup>3</sup> (total dust)	
	5 mg/m <sup>3</sup> (respirable faction)	

---

**8.3 Personal protection**

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

**Respiratory protection :**

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling,storage,use and disposal are beyond our control and may be beyond our knowledge.

**Hand protection :**

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

**Eye protection :**

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

**Skin protection :**

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

---



---

**9. PHYSICAL AND CHEMICAL PROPERTIES**


---



---

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Physical state at: 68 ° F (20 ° C) Liquid</li> <li>• Flash point: 200 ° F (93 ° C) Method: TCC</li> <li>• Specific gravity at: 68 ° F (20 ° C) N/A</li> <li>• Vapor Density: N/A</li> <li>• Lower Explosive Limit (% vol.): N/A</li> <li>• Upper Explosive Limit '(% vol.): N/A</li> <li>• Miscibility in water at 20 ° C: NEGLIGIBLE</li> </ul> | <ul style="list-style-type: none"> <li>• Ph : N/A</li> <li>• Volatile by VOLUME: N/A</li> <li>• Vapor pressure at: 68 ° F (20 ° C) N/A</li> <li>• Color: RED PASTE</li> <li>• Appearance: PASTE</li> <li>• Odor: SLIGHT ODOR</li> <li>• Boiling Point: N/A</li> </ul> |
|---|---|

---



---

**10. STABILITY AND REACTIVITY**


---



---

Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products such as :

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Carbon monoxide</li> <li>• Sulfur oxides</li> </ul> | <ul style="list-style-type: none"> <li>• OXIDES OF CARBON, SILICONE DIOXIDE, ETHANOL, OTHER TOXIC FUMES</li> <li>• Formaldehyde</li> </ul> | <ul style="list-style-type: none"> <li>• Carbon Dioxide</li> </ul> |
|--|--|--|

In case of inhalation of decomposition products released in a fire, symptoms may be delayed. Exposed persons may need to be kept under medical surveillance for at least 48 hours.

Avoid contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride, and oxygen difluoride. Which may cause fires.

Silica when exposed to hydrofluoric acid will dissolve and produce a corrosive gas, silicone tetrafluoride.

---



---

**11. TOXICOLOGICAL INFORMATION**


---



---

There are no data available on the preparation itself. See ( SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health

**SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)**

Polysilicic Acid, Ethyl Ester	Category 3	Respiratory Tract Irritation
-------------------------------	------------	------------------------------

**SPECIFIC TARGET ORGAN TOXICITY-STOT (REPEATED EXPOSURE)**

Silica (Crystalline Quartz)	Category 1
-----------------------------	------------

**CARCINOGEN**

INGREDIENT	IARC	OSHA	NTP	CAS#
Silica (Crystalline Quartz)	1A			14808-60-7

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

---

---

**12. ECOLOGICAL INFORMATION**

---

---

There is no data available on the preparation itself. Do not allow the product to enter drains or water ways. Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations. Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment. See sections 3 and 5

---

---

**13. DISPOSAL CONSIDERATIONS**

---

---

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations. React with curing agent and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill. Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations. Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

---

---

**14. TRANSPORT INFORMATION**

---

---

**DOT:** Not regulated  
**UN Number:** Not regulated  
**IATA:** Not regulated  
**IMDG/IMO:** Not regulated  
**NMFC:** 4620 SUB.6 – CL.60  
**Schedule B #** 3506.91.0000

---

---

**15. REGULATORY INFORMATION**

---

---

**US Regulations Federal**

chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA) SILICA (CRYSTALLINE)	Chemical Name	CAS No	Weight %	Threshold limit
	SILICA	14808-60-7	<40%	Unknown

---

**SARA 311/312**

Silicone Elastomer - Delayed (chronic) Health Hazard

All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

**US Regulations State**

California Proposition 65 (Developmental – Female)	<b>QUARTZ</b>	14808-60-7	<40%	unknown
Massachusetts	<b>QUARTZ</b>	14808-60-7	<40%	unknown
New Jersey	<b>QUARTZ</b>	14808-60-7	<40%	unknown
Pennsylvania	<b>QUARTZ</b>	14808-60-7	<40%	unknown
Rhode Island	<b>QUARTZ</b>	14808-60-7	<40%	unknown
Texas	<b>QUARTZ</b>	14808-60-7	<40%	unknown

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

Canada



materials Division 2: Materials Causing  
Other Toxic Effects D2A SILICA D2B  
octamethylcyclotetrasiloxane  
polysilicicacid ethyl ester

**California Prop 65 Warning :**

This product contains one or more ingredients known by the state of California to cause cancer, birth defects, or other reproductive harm.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by CPR. Listed National Pollutant Release Inventory (NPRI):  
Silica Cas#14808-60-7, octamethylcyclotetrasiloxane cas#556-67-2 and polysilicicacid ethyl ester cas#11099-06-2

---

---

**16. OTHER INFORMATION**

---

---

HEALTH-1 \*  
FLAMMABILITY-0  
REACTIVITY-0  
CHRONIC \*

\* Customer and / or end user is responsible  
for determining Personal Protection Equipment

**HMIS**

Preparer-Flamemaster/Compliance  
Rev A June 2010  
Supercedes (Conversion)

Revision Notes:A

Conversion to ANSI format

Containers: Plastic Jars, Metal Cans, Cartridge Kits

Maximum Container Size: 50 Gallons/190 Liters

Notice to reader:

This SDS is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

In all cases, the user must determine the applicability of all information and recommendations contained herein as well as the suitability of this product for their own particular needs or purposes.

This product may be hazardous and should always be used with care and discretion. Every effort has been made to describe all known hazards, but this in no way guarantees the above mentioned hazards are the only hazards present.

Flamemaster Corporation, its Affiliates and its Agents, shall in no way be held liable for any damages resulting from handling, using, storing, disposing of, or from contact with this product. User assumes all risk.

End of Safety Data Sheet

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

**Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

1.1. Product Identifier: CS-3808 Part B Class A (all application times)  
 - Product Name: Silicone Sealant / Catalyst Part B  
 - Product reference: CS-3808-CLASS A ALL

1.2. Product Use:  
 -Silicone Sealant

1.3. Manufacturer's Name:  
**CAGE Code: 14439**  
**Flamemaster Corp.**  
**Chem Seal Division**  
**13576 Desmond Street**  
**Pacoima, CA 91333 – USA**

1.3.1 Suppliers Name ( if not manufacturer )

Technical Contact:  
**Flamemaster Corp.**  
 Tel: 818-890-1401  
 Fax: 818-890-6001  
[www.flamemaster.com](http://www.flamemaster.com)

1.4. Emergency Telephone:  
 Chemtrec – Chemtrec International  
 800-424-9300 ( North America)  
 703-527-3887 (Outside North America))

<b>Specification:</b>	<b>BMS 8 68</b>	<b>MMS-M138</b>	<b>CATALYST PART B</b>	<b>CLASS A</b>	<b>ALL</b>
<b>NSN:</b>		5970-01-084-4932 CS3808 A2 GALLON			

OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**CLASSIFICATION OF THE MIXTURE:**

- ASPIRATION HAZARD - (CATEGORY 1)
- ACUTE TOXICITY,ORAL - CATEGORY 4
- TOXIC TO REPRODUCTION - CATEGORY 2
- CARCINOGEN- CATEGORY 1A
- SKIN CORROSION / IRRITATION (CATEGORY 2)
- SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
- SKIN SENSITIZATION - Category 1
- GERM CELL MUTAGENICITY-CATEGORY 2
- SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 1
- TOXIC TO AQUATIC LIFE - CATEGORY 4



## GHS LABEL REQUIREMENTS

### HAZARD PICTOGRAMS



**SIGNAL WORD : DANGER**

### HAZARD STATEMENTS:

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - (H304)  
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD - H361  
CAUSES SERIOUS EYE IRRITATION - H319  
CAUSES SKIN IRRITATION - (H315)  
MAY CAUSE AN ALLERGIC SKIN REACTION - (H317)  
SUSPECTED OF CAUSING GENETIC DEFECTS - (H341)  
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - (H372)  
MAY CAUSE CANCER - (H350)  
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - (H413)  
HARMFUL IF SWALLOWED - (H302)

### SUPPLEMENTAL LABEL ELEMENTS:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of concentrations above recommended limits causes headaches, drowsiness and nausea and could lead to unconsciousness or possibly death.  
Avoid any contact with skin or clothing and wash thoroughly after handling.  
Emits toxic fumes when heated.  
Sanding and grinding dust may be harmful if inhaled.

#### **In the event of sanding, grinding, or abrading:**

H372 Causes damage to organs through prolonged or repeated exposure.

### HAZARDS NOT OTHERWISE CLASSIFIED:

Prolonged or repeated exposure may dry skin and / or cause skin irritation.

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

Full text of P statements with N° associated to this compound:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin: Wash with plenty of soap and water
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

---

---

### Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

---

---

**Chemical family** : Mixture of organic compounds

HAZARDOUS INGREDIENTS	% By WEIGHT	CAS NUMBER
Dibutyltin Dilaurate	<10%	77-58-7
Crystalline Silica	<30%	14808-60-7

---

---

### Section -4. FIRST-AID MEASURES

---

---

**General:** When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

**Eye contact:** Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical attention.

**Skin contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products. If skin irritation/sensitization occurs seek medical attention.

**Ingestion:** If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person.

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling,storage,use and disposal are beyond our control and may be beyond our knowledge.

---

---

**Section -5. FIRE-FIGHTING MEASURES**

---

---

**Extinguishing agents**

**Recommended:** Universal resistant foam, CO<sub>2</sub>, water, powder.

**Agents to avoid:** None known

**Attention**

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

Do not allow run-off from fire fighting to enter drains or water courses.

Emits toxic fumes when heated.

**HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE:** Carbon Monoxide, Carbon Dioxide (CO<sub>2</sub>),

Formaldehyde (from oxidative degradation), Sulfur Oxides, Oxides of Carbon, Silicone Dioxide, Ethanol.

Tin Oxide, Organic Acid Vapors      Formaldehyde (due to oxidative degradation)

Silica when exposed to hydrofluoric acid will dissolve and produce a corrosive gas, silicone tetrafluoride.

---

---

**Section -6. ACCIDENTAL RELEASE MEASURES**

---

---

Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean-up with a detergent/ water mix ; avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

---

---

**Section -7. HANDLING AND STORAGE**

---

---

**7.1 Handling:**

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy/while nursing.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

**7.2 Storage:**

Observe label precautions. Store between 32/F and 95/F ( 0/C and 35/C ) in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****8.1 Engineering measures:**

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

**8.2 Exposure limits****Work place exposure limits ( 8 hour )**

Substance	OSHA	ACGIH TLV
SILICA (CRYSTALLINE)	0.1mg m <sup>3</sup>	0.025 mg m <sup>3</sup> TWA
Dibutyltin dilaurate	0.1mg m <sup>3</sup> (JSOH OELs)	0.1mg m <sup>3</sup> (JSOH OELs)
Titanium Dioxide	0.1mg m <sup>3</sup>	10 mg/m <sup>3</sup> TWA

**8.3 Personal protection**

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

**Respiratory protection :**

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

**Hand protection :**

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

**Eye protection :**

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

**Skin protection :**

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

---

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

---

- Physical state at: 68 ° F (20 ° C) Liquid
- Flash point: 200 ° F (93 ° C) Method: TCC
- Specific gravity at: 68 ° F (20 ° C) N/A
- Vapor Density: N/A
- Lower Explosive Limit (% vol.): N/A
- Upper Explosive Limit (% vol.): N/A
- Miscibility in water at 20 ° C: NEGLIGIBLE
- Ph : N/A
- Volatile by VOLUME: N/A
- Vapor pressure at: 68 ° F (20 ° C) N/A
- Color: WHITE PASTE
- Appearance: PASTE
- Odor: SLIGHT ODOR
- Boiling Point: N/A

---

---

**10. STABILITY AND REACTIVITY**

---

---

Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products such as :

- Carbon monoxide
- Sulfur oxides
- Tin Oxide
- OXIDES OF CARBON, SILICONE DIOXIDE, ETHANOL
- Formaldehyde
- Organic Acid Vapors
- Carbon Dioxide
- Toxic Fumes

Avoid contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride, and oxygen difluoride. Which may cause fires.

Silica when exposed to hydrofluoric acid will dissolve and produce a corrosive gas, silicone tetrafluoride.

---

---

**11. TOXICOLOGICAL INFORMATION**

---

---

There are no data available on the preparation itself. See ( SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health

**SPECIFIC TARGET ORGAN TOXICITY-STOT (REPEATED EXPOSURE)**

Silica (Crystalline Quartz)            Category 1  
Dibutyltin Dilaurate                Category 1

**CARCINOGEN**

INGREDIENT	IARC	OSHA	NTP	CAS#
Silica (Crystalline Quartz)	1A			14808-60-7
Titanium Dioxide	2B			13463-67-7

**ACUTE TOXICITY VALUES - ORAL**

PRODUCT	RESULT	SPECIES	DOSE	EXPOSURE
Silica (Crystalline Quartz)	LD50 ORAL	Rat	>22,500 mg/kg	-
Dibutyltin Dilaurate	LD50 ORAL	Rat	>2,000 mg/kg	-

**ACUTE TOXICITY VALUES - DERMAL**

PRODUCT	RESULT	SPECIES	DOSE	EXPOSURE
Dibutyltin Dilaurate	LD50	RABBIT	>2,000 mg/kg	-

**ASPIRATION HAZARD:**

May Be Fatal if Swallowed and Enters Airways

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling,storage,use and disposal are beyond our control and may be beyond our knowledge.

---

---

**12. ECOLOGICAL INFORMATION**

---

---

There is no data available on the preparation itself. Do not allow the product to enter drains or water ways.  
Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.  
Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.  
See sections 3 and 5

**AQUATIC TOXICITY**

PRODUCT	RESULT	SPECIES	DOSE	EXPOSURE
Dibutyltin Dilaurate	LC50	FISH	2 mg/l	-
Dibutyltin Dilaurate	EC50	Daphnia Magna	2.28 mg/l	-

---

---

**13. DISPOSAL CONSIDERATIONS**

---

---

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations.  
React with base agent and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.  
Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.  
Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

---

---

**14. TRANSPORT INFORMATION**

---

---

**DOT:** Not regulated  
**UN Number:** Not regulated  
**IATA:** Not regulated  
**IMDG/IMO:** Not regulated  
**NMFC:** 4620 SUB.6 – CL.60  
**Schedule B #** 3506.91.0000

---

---

**15. REGULATORY INFORMATION**

---

---

**US Regulations Federal**

chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA) SILICA (CRYSTALLINE)	Chemical Name	CAS No	Weight %	Threshold limit
	SILICA	14808-60-7	<40%	Unknown

---

**SARA 311/312**

Dibutyltin Dilaurate - Acute Health Hazard, Chronic Health Hazard  
Silica - Chronic Health

All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

**US Regulations State**

California Proposition 65 (Developmental – Female)	<b>QUARTZ</b>	14808-60-7	<40%	unknown
Massachusetts	<b>QUARTZ</b>	14808-60-7	<40%	unknown
New Jersey	<b>QUARTZ</b>	14808-60-7	<40%	unknown
Pennsylvania	<b>QUARTZ</b>	14808-60-7	<40%	unknown
Rhode Island	<b>QUARTZ</b>	14808-60-7	<40%	unknown
Texas	<b>QUARTZ</b>	14808-60-7	<40%	unknown

**Canada**



materials Division 2: Materials Causing  
Other Toxic Effects D2A SILICA D2B  
Dibutyltin Dilaurate

**California Prop 65 Warning :**

This product contains one or more ingredients known by the state of California to cause cancer, birth defects, or other reproductive harm.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by CPR. Listed National Pollutant Release Inventory (NPRI):  
Silica Cas#14808-60-7, Dibutyltin Dilaurate Cas# 77-58-7

---

---

**16. OTHER INFORMATION**

---

---

HEALTH-3\*  
FLAMMABILITY-1  
REACTIVITY-0  
\* Chronic

Customer and / or end user is responsible  
for determining Personal Protection Equipment

**HMIS**

Preparer-Flamemaster/Compliance  
Rev A June 2010  
Supercedes (Conversion)

Revision Notes:A

Conversion to ANSI format

Containers: Plastic Jars, Metal Cans, Cartridge Kits

Maximum Container Size: 50 Gallons/190 Liters

This sds is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

Notice to reader:

This SDS is provided without any warranty expressed or implied regarding its correctness or suitability for specific situations. The conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge.

In all cases, the user must determine the applicability of all information and recommendations contained herein as well as the suitability of this product for their own particular needs or purposes.

This product may be hazardous and should always be used with care and discretion. Every effort has been made to describe all known hazards, but this in no way guarantees the above mentioned hazards are the only hazards present.

Flamemaster Corporation, its Affiliates and its Agents, shall in no way be held liable for any damages resulting from handling, using, storing, disposing of, or from contact with this product. User assumes all risk.

End of Safety Data Sheet