Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

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

1.4. Emergency Telephone:
   Flammaster Corp.
   Chemtrec – Chemtrec International
   Tel: 818-890-1401
   800-424-9300 (North America)
   703-527-3887 (Outside North America)
   www.flamemaster.com

<table>
<thead>
<tr>
<th>Specification: MMS-138/BMS 8 68</th>
<th>CATALYST PART B</th>
<th>CLASS B</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSN:</td>
<td>NONE ISSUED FOR THIS PRODUCT</td>
<td></td>
</tr>
</tbody>
</table>

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
CARCINOGEN - CATEGORY 1A
SKIN CORROSION / IRRITATION (CATEGORY 2)
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - CATEGORY 2
REPRODUCTIVE TOXICITY - CATEGORY 1B
SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 1
TOXIC TO AQUATIC LIFE - CATEGORY 4

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**HAZARD STATEMENTS:**

- MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - (H304)
- MAY DAMAGE FERTILITY. MAY DAMAGE THE UNBORN CHILD - H360FD
- 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.

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Full text of P statements with Nº 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.
- 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

<table>
<thead>
<tr>
<th>Chemical family</th>
<th>HAZARDOUS INGREDIENTS</th>
<th>% By WEIGHT</th>
<th>CAS NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture of organic compounds</td>
<td>Dibutyltin Dilaurate</td>
<td>&lt;10%</td>
<td>77-58-7</td>
</tr>
<tr>
<td></td>
<td>Crystalline Silica</td>
<td>&lt;30%</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

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.

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Section -5. FIRE-FIGHTING MEASURES

Recommended:  Universal resistant foam, CO₂, 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 (CO₂),
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

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICA (CRYSTALLINE)</td>
<td>0.1mg m³</td>
<td>0.025 mg m³ TWA</td>
</tr>
<tr>
<td>Dibutyltin dilaurate</td>
<td>0.1mg m³ (JSOH OELs)</td>
<td>0.1mg m³ (JSOH OELs)</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>0.1mg m³</td>
<td>10 mg/m³ TWA</td>
</tr>
</tbody>
</table>

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.

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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

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
• Oxides of Carbon, SilicOnE DioxiDe, ethanol
• Sulfur oxides
• Formaldehyde
• Tin Oxide
• Organic Acid Vapors
• Carbon Dioxide
• Tin Oxide
• 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 13463-67-7
Titanium Dioxide 2B 14808-60-7

ACUTE TOXICITY VALUES - ORAL

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>DOSE</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica (Crystalline Quartz)</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>&gt;22,500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>&gt;2,000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

ACUTE TOXICITY VALUES - DERMAL

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>DOSE</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>LD50</td>
<td>RABBIT</td>
<td>&gt;2,000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

ASPIRATION HAZARD:

May Be Fatal if Swallowed and Enters Airways

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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

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>DOSE</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>LC50</td>
<td>FISH</td>
<td>2 mg/l</td>
<td>-</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>EC50</td>
<td>Daphnia Magna</td>
<td>2.28 mg/l</td>
<td>-</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
<th>Threshold limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SILICA</td>
<td>14808-60-7</td>
<td>&lt;40%</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

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

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California Proposition 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

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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