Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier: CS-3213 Corrosion Inhibiting Sealant-Pre-mixed and Frozen
   - Product Name: Corrosion Inhibiting Sealant / Premixed and Frozen
   - Product reference: CS-3213-Premixed and Frozen

1.2. Product Use:
   - Corrosion Inhibiting Sealant

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

1.3.1 Suppliers Name (if not manufacturer)
- Flamemaster Corp.
- Chemtrec – Chemtrec International
  - Tel: 818-890-1401
  - Fax: 818-890-6001
  - www.flamemaster.com

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

Section -2. HAZARD (S) IDENTIFICATION
- Flammable
- Possible adverse risk to the fetus.
- Skin and eye irritant.
- Harmful if swallowed.
- Harmful if inhaled.
- Possible harm to aquatic organisms.
- May cause long term adverse effects in the aquatic environment.

Section -3. COMPOSITION / INFORMATION ON INGREDIENTS
- Chemical family: Mixture of organic compounds
  - For the hazards of the composition, (SDS see Section 2).
  - GHS CLASSIFICATION: LIQUID POLYSULFIDE POLYMER / OSHA HAZARDS: TARGET ORGAN EFFECT, IRRITANT, FLAMMABLE LIQUID EYE IRRITATION (CATEGORY 2)
  - SKIN IRRITATION (CATEGORY 2)
  - SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE- (CATEGORY 3)
  - AQUATIC, CHRONIC (CATEGORY 3)

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>H&amp;P Statements</th>
<th>CAS</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
</table>
GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): TOLUENE
FLAMMABLE LIQUIDS (CATEGORY 2), H225
SKIN IRRITATION (CATEGORY 2), H315
REPRODUCTIVE TOXICITY (CATEGORY 2), H361
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE (CATEGORY 3), CENTRAL NERVOUS SYSTEM, H336
SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE (CATEGORY 2), H373
ASPIRATION HAZARD (CATEGORY 1), H304
ACUTE AQUATIC TOXICITY (CATEGORY 2), H401

<table>
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<tr>
<th>SUBSTANCE</th>
<th>H&amp;P Statements</th>
<th>CAS</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
</table>

CHEMICAL NAME: MANGANESE DIOXIDE
OSHA HAZARDS: TARGET ORGAN EFFECT, TOXIC BY INHALATION
TARGET ORGANS: NERVES, LUNGS
GHS CLASSIFICATION:
ACUTE TOXICITY, ORAL (CATEGORY 5)
ACUTE TOXICITY, INHALATION (CATEGORY 4)

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>H&amp;P Statements</th>
<th>CAS</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manganese Dioxide &lt;=10%</td>
<td>H272, H302, H332, H373</td>
<td>1313-13-9</td>
<td>215-202-6</td>
</tr>
<tr>
<td>Manganese Dioxide &lt;=10%</td>
<td>P280, P210, P221, P371+P380+P375, P304+P340, P312</td>
<td>1313-13-9</td>
<td>215-202-6</td>
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</tbody>
</table>

CHEMICAL NAME: MAGNESIUM CHROMATE
GHS CLASSIFICATION: MAGNESIUM CHROMATE
ACUTE TOXICITY, ORAL (CATEGORY 3), H301 - TOXIC IF SWALLOWED
CARCINOGEN, (CATEGORY 1A) H350I - MAY CAUSE CANCER BY INHALATION
CARCINOGEN, (CATEGORY 1A) H350 - MAY CAUSE CANCER
SKIN CORROSIVE, (CATEGORY 1A) H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
EYE DAMAGE, (CATEGORY 1) H314 - CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
AQUATIC ACUTE, (CATEGORY 1) H400 - VERY TOXIC TO AQUATIC LIFE
AQUATIC CHRONIC, (CATEGORY 1) H410 - VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

<table>
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<tr>
<th>Magnesium Chromate &lt;6%</th>
<th>H301, H314, H350, H350i, H400</th>
<th>13423-61-5</th>
<th>236-540-0</th>
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<td></td>
<td>H410, P101, P102, P103, P301+P310</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>P310, P303+P361+P353, P305+P351+P338, P310, P405, P501</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**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.

**Ingestion:** If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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

**Extinguishing agents**

**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.

Vapors are heavier than air and will collect at low points. Dry ice releases Carbon Dioxide and poses serious suffocation hazard. In confined areas or areas without proper ventilation wear self contained breathing apparatus.

**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.

**Section -7. HANDLING AND STORAGE**

7.1 Handling:

No smoking, eating and drinking during handling.

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.

Vapors are heavier than air and will collect at low points. Dry ice releases Carbon Dioxide and poses serious suffocation hazard. In confined areas or areas without proper ventilation wear self contained breathing apparatus.

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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.
Vapors are heavier than air and will collect at low points. Dry ice releases Carbon Dioxide and poses serious suffocation hazard. In confined areas or areas without proper ventilation wear self contained breathing apparatus.

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.
Vapors are heavier than air and will collect at low points. Dry ice releases Carbon Dioxide and poses serious suffocation hazard. In confined areas or areas without proper ventilation wear self contained breathing apparatus.

8.2 Exposure limits

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>* LIQUID POLYSULFIDE-POLYMER &lt; 71%</td>
<td>Not known</td>
<td>Not known</td>
</tr>
<tr>
<td>* TOLUENE (Methylbenzene) &lt;= 12%</td>
<td>100 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>* Manganese Dioxide &lt;=10%</td>
<td>5 ppm</td>
<td>5mg/m³</td>
</tr>
<tr>
<td>* Magnesium chromate &lt;6%</td>
<td>0.5mg/m³</td>
<td>0.5mg/m³</td>
</tr>
</tbody>
</table>
* can be absorbed through skin

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.
Vapors are heavier than air and will collect at low points. Dry ice releases Carbon Dioxide and poses serious suffocation hazard. In confined areas or areas without proper ventilation wear self contained breathing apparatus.

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 º F (20 º C) Solid
- Flash point: 93 Deg. C--- 200 Deg. F Method: TCC
- Specific gravity at: 68 ° F (20 ° C) 1.75 g/cm3
- Vapor Density: 3.2
- Lower Explosive Limit-1.3
- Upper Explosive Limit- 7.1
- Miscibility in water at 20 º C: INSOLUBLE
- Ph : 7.2
- % Volatile by volume: 5 %
- Vapor pressure at: 68 º F (20 º C) 22
- Color: GRAY COLOR
- Appearance: Paste
- Odor: POLYSULFIDE ODOR
- Boiling Point: 231 ° F

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

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 effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases loss of consciousness. Repeated or prolonged contact with the preparation may cause Defatting of the skin resulting in non-allergic dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and damage.

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself. Do not allow the product to enter drains or water ways. See (SDS Sections 3 and 15)

13. DISPOSAL CONSIDERATIONS

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations. Dispose as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

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14. TRANSPORT INFORMATION

DOT: § 172.101 HAZARDOUS MATERIALS TABLE

UN Number: 1845
Proper Shipping Name: Carbon Dioxide Solid (Dry Ice)
Labels: Carbon Dioxide Solid (Dry Ice)

Hazard Class: 9 Subclass: NO
Packaging Group: III
Limited Quantity: Passenger aircraft: 10 Liter (2.64 Gallons)
Cargo aircraft only: 220 Liter (58 gallon)
Vessel stowage: A
ERG: 128
NMFC 4620 sub.5-CL.60
Schedule B # 3506.91.0000

IATA:
UN Number: 1845
Proper Shipping Name: Carbon Dioxide Solid (Dry Ice)
Labels: Carbon Dioxide Solid (Dry Ice)
Hazard Class: 9 Subclass: NO
Packaging Group: III
Passenger Air Packing Instruction: 355
Passenger aircraft: 60 Liter (16 gallon)
Cargo Air Packing Instruction: 366
Cargo aircraft only: 220 Liter (58 gallon)

IMDG:
UN Number: 1845
Proper Shipping Name: Carbon Dioxide Solid (Dry Ice)
Label: Carbon Dioxide Solid (Dry Ice)
Hazard Class: 9 Subclass: NO
Packaging Group: III
EMS No: F, E – S, D

Vapors are heavier than air and will collect at low points. Dry ice releases Carbon Dioxide and poses serious suffocation hazard. In confined areas or areas without proper ventilation wear self contained breathing apparatus.

15. REGULATORY INFORMATION

US Regulations Federal

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
<th>Threshold limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIQUID POLYMER</td>
<td>68611-50-7</td>
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<tr>
<td>TOLUENE</td>
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<td>unknown</td>
</tr>
<tr>
<td>MANGANESE DIOXIDE</td>
<td>1313-13-9</td>
<td>&lt;=10%</td>
<td>unknown</td>
</tr>
<tr>
<td>Magnesium chromate</td>
<td>13423-61-5</td>
<td>&lt;6%</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

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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Class D - Poisonous and Infectious materials Division 2: Materials Causing Other Toxic Effects D2A LIQUID POLYSULFIDE POLYMER, TOLUENE MANGANESE DIOXIDE MAGNESIUM CHROMATE D2B

<table>
<thead>
<tr>
<th>State</th>
<th>Component</th>
<th>CAS Number</th>
<th>Percentage</th>
<th>Test Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Proposition 65 (Developmental – Female)</td>
<td>Liquid Polymer</td>
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<td>&lt;71%</td>
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<tr>
<td>California Proposition 65 (Developmental – Female)</td>
<td>Toluene</td>
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<tr>
<td>California Proposition 65 (Developmental – Female)</td>
<td>Manganese Dioxide</td>
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<td>&lt;6%</td>
<td>unknown</td>
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<tr>
<td>Massachusetts</td>
<td>Liquid Polymer</td>
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<td>&lt;71%</td>
<td>unknown</td>
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<tr>
<td>Massachusetts</td>
<td>Toluene</td>
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<tr>
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<td>&lt;71%</td>
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<tr>
<td>Rhode Island</td>
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<td>Magnesium Chromate</td>
<td>13423-61-5</td>
<td>&lt;6%</td>
<td>unknown</td>
</tr>
</tbody>
</table>

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.


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16. OTHER INFORMATION

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.
- 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
- P282: Wear cold insulating gloves/face shield/eye protection
- P285: In case of inadequate ventilation wear respiratory 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.

Full text of H statements with Nº appearing in Section 3:
- H412: Harmful to aquatic life with long lasting effects
- H360Fd: May damage fertility. Suspected of damaging the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation
- H336: May cause drowsiness or dizziness
- H318: Causes serious eye damage
- H302+H332: Harmful if swallowed. Harmful if inhaled

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Preparer: Flamemaster / Compliance

Revision Notes: A
Conversion to ANSI format

Containers: plastic jars, metal cans, cartridge kits

Limited Quantity: See SDS Section 14

Maximum container size: 50 Gallons / 190 Liters

End of Safety Data Sheet