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:
   1.3.1 Suppliers Name (if not manufacturer)
   CAGE Code: 14439
   Flamemaster Corp.
   Chem Seal Division
   13576 Desmond Street
   Pacoima, CA 91333 – USA

1.4. Emergency Telephone:
   Flamemaster Corp.
   Chemtrec – Chemtrec International
   Tel: 818-890-1401
   Fax: 818-890-6001
   www.flamemaster.com

1.5. Specification:
   STM 40-111-112 / MIL-PRF-81733
   Pre-Mixed and Frozen
   ALL

<table>
<thead>
<tr>
<th>NSN</th>
<th>Pre-Mixed and Frozen</th>
<th>ALL</th>
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</thead>
<tbody>
<tr>
<td>8030-01-333-4821 CS3213 B-2 6 OZ</td>
<td>8030-01-333-3954 CS3213 B-2 2.5 OZ</td>
<td>8030-01-387-1017 CS3213 B1/2 6 OZ</td>
</tr>
<tr>
<td>8030-01-363-6503 CS3213 C-24 6 OZ</td>
<td>8030-01-363-6503 CS3213 C-24 6 OZ</td>
<td>8030-01-363-6503 CS3213 C-24 6 OZ</td>
</tr>
</tbody>
</table>

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.
MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY
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)
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
CARCINOGENICITY - Category 1A
TOXIC TO REPRODUCTION (UNBORN CHILD) - Category 2
ACUTE TOXICITY, ORAL - CATEGORY 4
ACUTE TOXICITY (INHALATION) - CATEGORY 4
SKIN SENSITIZATION - CATEGORY 1
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE -CATEGORY 3
SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 2
GERM CELL MUTAGENICITY - CATEGORY 1B
TOXIC TO REPRODUCTION (FERTILITY) - CATEGORY 2
AQUATIC CHRONIC - CATEGORY 4

GHS LABEL REQUIREMENTS
HAZARD PICTOGRAMS

SIGNAL WORD: DANGER

HAZARD STATEMENTS:
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
HARMFUL BY INHALATION AND / OR SWALLOWING
CAUSES SERIOUS EYE IRRITATION
CAUSES SKIN IRRITATION
SUSPECTED OF DAMAGING THE UNBORN CHILD
MAY CAUSE AN ALLERGIC SKIN REACTION
MAY CAUSE GENETIC DEFECTS
SUSPECTED OF DAMAGING FERTILITY
MAY CAUSE RESPIRATORY IRRITATION
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE
SUSPECTED OF CAUSING CANCER
MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE

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.

MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY

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.
PRECAUTIONARY STATEMENTS:

- 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+P305+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
- P302+P352: If on skin (or in hair): Wash with plenty of soap and water. If skin irritation occurs seek medical attention
- 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.

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.

HAZARDS NOT OTHERWISE CLASSIFIED:

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

Sand blasting and grinding dust may be harmful if inhaled. Sand blasting and grinding dust may form combustible concentrations in air. 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.

MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY

In the event of sanding, grinding, or abrading:

H372 Causes damage to organs through prolonged or repeated exposure.

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

EYE IRRITATION (CATEGORY 2) Cas# N/A % BY WEIGHT - <71%

SKIN IRRITATION (CATEGORY 2)

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE (CATEGORY 3)

AQUATIC, CHRONIC (CATEGORY 3)
FORMALDEHYDE, POLYMER WITH METHYLPHENOL AND PHENOL:
NOT A CLASSIFIED SUBSTANCE OR MIXTURE BY GHS-US

2-BUTANONE
CAS#78-93-3 % BY WEIGHT - <2% EC#201-159-0
OSHA HAZARDS: FLAMMABLE LIQUID, TARGET ORGAN EFFECT, IRRITANT
TARGET ORGANS: CENTRAL NERVOUS SYSTEM
GHS CLASSIFICATION: 2-BUTANONE
FLAMMABLE LIQUIDS (CATEGORY 2)
ACUTE TOXICITY, ORAL (CATEGORY 5)
EYE IRRITATION (CATEGORY 2A)
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE (CATEGORY 3), CENTRAL NERVOUS SYSTEM
OTHER HAZARDS: REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS AND CRACKING

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): TOLUENE
FLAMMABLE LIQUIDS (CATEGORY 2), H225
CAS#108-88-3 % BY WEIGHT - <3% EC#203-625-9
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

CALCIUM CARBONATE:
CAS# 72608-12-9 EC# 207-439-9 <45% by weight
OSHA HAZARDS: TARGET ORGAN EFFECT, TOXIC BY INHALATION
TARGET ORGANS: NERVES, LUNGS
GHS CLASSIFICATION: ACUTE TOXICITY, ORAL (CATEGORY 4) - H302
SKIN IRRITATION (CATEGORY 2)

TITANIUM DIOXIDE
CAS# 13463-67-7 EC# 236-675-5 <10% by weight
OSHA HAZARDS: CARCINOGEN
GHS CLASSIFICATION: TITANIUM DIOXIDE
SKIN IRRITATION: (CATEGORY 3)
CARCINOGENICITY (CATEGORY 2)

CHEMICAL NAME: MANGANESE DIOXIDE
CAS# 1313-13-9 EC# 215-202-6 <65% by weight
OSHA HAZARDS: TARGET ORGAN EFFECT, TOXIC BY INHALATION
TARGET ORGANS: NERVES, LUNGS
GHS CLASSIFICATION:
ACUTE TOXICITY, ORAL (CATEGORY 4) - H302
ACUTE TOXICITY, INHALATION (CATEGORY 4) - H332

CHEMICAL NAME: TERPHENYL, HYDROGENATED
CAS# 61788-32-7 EC# 262-967-7 <50% by weight
AQUATIC CHRONIC (CATEGORY 4) - H413

CHEMICAL NAME: ZEOLITES
CAS# 1318-02-1 EC# 215-283-8 <15% by weight
NOT CLASSIFIED

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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: Remove any contact lenses if present and easy to do. Irrigate with clean, fresh water for at least 15 minutes, holding the eye lids apart, and seek immediate 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. May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person.

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. MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY.
Section -5. FIRE-FIGHTING MEASURES

Recommended: Universal resistant foam, CO2, water, powder.
Agents to avoid: None known

Attention
Promptly remove all persons in the event of a fire from the fire area. If safe to do so, remove all containers from fire area as well.
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.
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 DIOXIDE, CARBON MONOXIDE, HALOGENATED COMPOUNDS, METAL OXIDE/OXIDES, FORMALDEHYDE, SULFUR OXIDES, UNIDENTIFIED ORGANIC COMPOUNDS, NITROGEN OXIDES, OXIDES OF CARBON, NITROGEN, SULFUR DIOXIDE, TRACE HYDROGEN SULFIDE, TOXIC FUMES, SMOKE

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.
MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY

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. Wash hands and face before eating, drinking, or smoking.
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.

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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. MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY

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 TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-BUTANONE (MEK) *</td>
<td>200 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td>ALIPHATIC POLYSULFIDE-POLYMER</td>
<td>Not known</td>
<td>Not known</td>
</tr>
<tr>
<td>TOLUENE (Methylbenzene) *</td>
<td>200 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>CALCIUM CARBONATE *</td>
<td>5 mg/m³ (RESPIRABLE FRACTION)</td>
<td>3 mg/m³ (RESPIRABLE FRACTION)</td>
</tr>
<tr>
<td>CALCIUM CARBONATE *</td>
<td>15mg/m³ (TOTAL DUST)</td>
<td>10 mg/m³ (TOTAL DUST)</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE *</td>
<td>15mg/m³ (TOTAL DUST)</td>
<td>10 mg/m³ (TOTAL DUST)</td>
</tr>
</tbody>
</table>
| Manganese Dioxide *           | TWA: 0.1mg/m³ (as Mn) 8 hours (Inhalable Fraction) ACGIH  
TWA: 0.02mg/m³ (as Mn) 8 hours (Respirable Fraction) ACGIH 
CEIL: 5mg/m³ OSHA PEL               |
| Terphenyl, Hydrogenated *     | TWA: 4.9 mg/m³ 8 hours - ACGIH 
TWA: 0.5 ppm 8 hours - ACGIH        |
| Zeolites *                    | TWA: 1mg/m³ 8 hours (Respirable Fraction) - ACGIH       |

Continued Next Page
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.

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.

MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical state at:** 68 °F (20 °C) Solid
- **Flash point:** 93 Deg. C--- 200 Deg. F Method: TCC
- **Specific gravity at:** 68 °F (20 °C) N/A
- **Vapor Density:** N/A
- **Lower Explosive Limit- N/A**
- **Upper Explosive Limit- N/A**
- **Miscibility in water at 20 °C:** INSOLUBLE
- **VOC:** N/A
- **Ph : N/A**
- **% Volatile by volume:** N/A
- **Vapor pressure at:** 68 °F (20 °C) N/A
- **Color:** GRAY COLOR
- **Appearance:** Paste
- **Odor:** POLYSULFIDE ODOR
- **Boiling Point:** N/A
- **Material Supports Combustion:** Yes

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.

MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY

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* can be absorbed through skin

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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
- Carbon Dioxide
- Formaldehyde
- Toxic Fumes
- Halogenated Compounds
- Oxides of Carbon, Nitrogen, Sulfur Dioxide, Trace Hydrogen Sulfide
- Metal Oxide / Oxides
- Smoke
- Unidentified Organic Compounds
- Nitrogen Oxides

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.

11. TOXICOCLOGICAL 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 of overexposure include headache, dizziness, fatigue, muscular weakness, drowsiness, reduced fetal weight, increase in fetal deaths, skeletal malformations, 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 causes serious eye irritation and damage. Irritating to mouth, throat and stomach. Ingestion causes reduced fetal weight, increased fetal deaths and skeletal malformations.

Formaldehyde is released during curing.

ACUTE TOXICITY:

<table>
<thead>
<tr>
<th>PRODUCT:</th>
<th>RESULT</th>
<th>SPECIES</th>
<th>DOSE</th>
<th>EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butanone</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>11243 ppm</td>
<td>4 Hours</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>6480 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>2737 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>6450 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Toluene</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>49 g/m³</td>
<td>4 Hours</td>
</tr>
<tr>
<td>Toluene</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>8000 ppm</td>
<td>4 Hours</td>
</tr>
<tr>
<td>Toluene</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>8.39 g/kg</td>
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</tr>
<tr>
<td>Toluene</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>636 mg/kg</td>
<td>-</td>
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<tr>
<td>Titanium Dioxide</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>&gt;10 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>Manganese Dioxide</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>3478 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Terphenyl,Hydrogenated</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>17500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Zeolites</td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>&gt;5 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>Terphenyl</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;1400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>1, 3-Diphenylguanidine</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>323 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

May cause damage to organs through prolonged or repeated exposure.
Suspected of causing cancer. Risk depends on level and duration of exposure.
Suspected of damaging the unborn child.
CARCINOGENICITY:

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>IARC</th>
<th>OSHA</th>
<th>NTP</th>
<th>CAS#</th>
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</thead>
<tbody>
<tr>
<td>TOLUENE</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>108-88-3</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>2B</td>
<td>-</td>
<td>-</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>Magnesium Chromate</td>
<td>1</td>
<td>+</td>
<td>Known to be a human carcinogen</td>
<td></td>
</tr>
<tr>
<td>Zeolites</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

LIQUID POLYMER - CATEGORY 3
TOLUENE - CATEGORY 3
BUTANONE - Category 3
Magnesium Chromate - (Category 3)
1,3-Diphenylguanidine - (Category 3)
Zeolites - (Category 3)

SPECIFIC TARGET ORGAN TOXICITY-STOT (REPEATED EXPOSURE)

TOLUENE - CATEGORY 2
Manganese Dioxide - (Category 2)

TARGET ORGANS: BRAIN, BLOOD, KIDNEYS, LUNGS, REPRODUCTIVE SYSTEM, LIVER, HEART, PERIPHERAL NERVOUS SYSTEM, GASTROINTESTINAL TRACT, UPPER RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS AND/OR CORNEA.

ASPIRATION HAZARD:

TOLUENE - CATEGORY 1

Potential chronic health effects include the following:
May Be Fatal if Swallowed and Enters Airways
Suspected of Damaging the Unborn Child
Harmful by Inhalation and / or Swallowing
Causes Serious Eye Irritation
Causes Skin Irritation
May Cause An Allergic Skin Reaction
May Cause Genetic Defects
Suspected of Causing Cancer
Suspected of Damaging Fertility
May Cause Respiratory Irritation
May Cause Damage to Organs Through Prolonged or Repeated Exposure
This Product Causes Skin Irritation, Defatting of the Skin, and May Cause an Allergic Reaction.

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.

MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY
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)

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.

Toxicity:

<table>
<thead>
<tr>
<th>Product / Ingredient</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>Acute LC50&gt;100mg/l Fresh Water</td>
<td>Daphnia</td>
<td>48 Hours</td>
</tr>
</tbody>
</table>

Persistence and Degradability:

<table>
<thead>
<tr>
<th>Product / Ingredient</th>
<th>Aquatic Half Life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
</tbody>
</table>

Bioaccumulative Potential:

<table>
<thead>
<tr>
<th>Product / Ingredient</th>
<th>LogP(ow)</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>2.73</td>
<td>8.32</td>
<td>low</td>
</tr>
<tr>
<td>Butanone</td>
<td>.29</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>1,3 Diphenylguanidine</td>
<td>1.69</td>
<td>19.95</td>
<td>Low</td>
</tr>
<tr>
<td>Bis(piperidinothiocarbonyl) tetrasulfide</td>
<td>2.8</td>
<td>16.98</td>
<td>Low</td>
</tr>
</tbody>
</table>

Mobility in Soil: Not Available

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: § 172.101 HAZARDOUS MATERIALS TABLE
UN Number: 1845
Proper Shipping Name: Carbon Dioxide Solid (Dry Ice)
Labels: Carbon Dioxide Solid (Dry Ice)

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)

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

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.
MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY

15. REGULATORY INFORMATION

US Regulations Federal

<table>
<thead>
<tr>
<th>Chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA)</th>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
<th>Threshold limit (Reporting Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE (Methylbenzene)</td>
<td>108-88-3</td>
<td>&lt;3%</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>2-BUTANONE</td>
<td>78-93-3</td>
<td>&lt;2%</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>LIQUID POLYMER</td>
<td>N/A</td>
<td>&lt;70%</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>72608-12-9</td>
<td>&lt;45%</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>*13463-67-7</td>
<td>&lt;10%</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>Manganese Dioxide</td>
<td>1313-13-9</td>
<td>&lt;65%</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td>Magnesium chromate</td>
<td>13423-61-5</td>
<td>&lt;40%</td>
<td>Unknown</td>
<td></td>
</tr>
<tr>
<td><em>(DELETED CAS# 98084-96-9)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA notifications must remain attached to this SDS. Any copies and/or distribution of this SDS must include all SARA notifications.

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. Page 12 of 16
**US Regulations State**

<table>
<thead>
<tr>
<th>State</th>
<th>Chemical</th>
<th>CAS Number</th>
<th>Concentration Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Proposition 65 (Female)</td>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt;3% &lt;= 1.0%</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt;3% &lt;= 1.0%</td>
</tr>
<tr>
<td>New Jersey</td>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt;3% &lt;= 1.0%</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt;3% &lt;= 1.0%</td>
</tr>
<tr>
<td>Rhode Island</td>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt;3% &lt;= 1.0%</td>
</tr>
<tr>
<td>California Proposition 65 (Female)</td>
<td>2-BUTANONE</td>
<td>78-93-3</td>
<td>&lt;2% &gt;= 1.0%</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>2-BUTANONE</td>
<td>78-93-3</td>
<td>&lt;2% &gt;= 1.0%</td>
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</tr>
<tr>
<td>California Proposition 65 (Female)</td>
<td>LIQUID POLYMER</td>
<td>N/A</td>
<td>&lt;70% &gt;= 1.0%</td>
</tr>
<tr>
<td>Massachusetts</td>
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<tr>
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<td>Calcium Carbonate</td>
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<tr>
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</tr>
</tbody>
</table>

Continued On Next Page

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.

**MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY**

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### Manganese Dioxide:
- Immediate (acute) health hazard
- Delayed (chronic) health hazard

### Magnesium Chromate:
- Fire Hazard
- Immediate (acute) health hazard
- Delayed (chronic) health hazard

### Zeolites:
- Immediate (acute) health hazard

### Polyphenyls, quater and higher:
- Immediate (acute) health hazard

### Terphenyl:
- Immediate (acute) health hazard

---

### Vapors
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.

**MAY CAUSE CRYOGENIC BURNS OR OTHER INJURY**
1,3-Diphenylguanidine : Fire Hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

Bis(piperidinothiocarbonyl) : Fire Hazard
tetrasulfide Immediate (acute) health hazard

Sudden Release Of Pressure: No Products
Reactivity: No Products

California Prop. 65 : Warning
This product contains a chemical or chemicals known by the State of California to cause cancer, birth defects, or other reproductive harm.

Canada

Class B – Flammable
TOLUENE
2-BUTANONE

Class D - Poisonous and Infectious materials Division 2: Materials Causing Other Toxic Effects D2A TOLUENE D2B TOLUENE CAS# 108-88-3
Liquid Polysulfide Polymer CAS# N/A
Titanium Dioxide CAS# 13463-67-7
Calcium Carbonate CAS# 72608-12-9
2-BUTANONE CAS# 78-93-3
Manganese Dioxide CAS# 1313-13-9
Magnesium Chromate Cas# 13423-61-5

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): TOLUENE CAS:108-88-3
Calcium Carbonate CAS# 72608-12-9
2-BUTANONE CAS# 78-93-3
Liquid Polysulfide Polymer cas# N/A
Titanium Dioxide CAS# 13463-67-7
Manganese Dioxide CAS# 1313-13-9
Magnesium Chromate Cas# 13423-61-5

16. OTHER INFORMATION

| HEALTH | 2 |
| FLAMMABILITY | 0 |
| REACTIVITY | 0 |

Customer and / or end user is responsible for determining PPE.

NFPA

HMIS

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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