Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier: CS-3201 Part-A Class-A Base (all application times) BLACK
- Product Name: Sealing Compound Part-A
- Product reference: CS-3201-A (BLACK)

1.2. Product Use:
- Sealant

1.3. Manufacturer’s Name:
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

1.3.1 Suppliers Name (if not manufacturer)

Technical Contact:
Flamemaster Corp.
Tel: 818-890-1401
Fax: 818-890-6001
www.flamemaster.com

<table>
<thead>
<tr>
<th>Specification</th>
<th>AMS 7124 / MIL-S-7502</th>
<th>Base PT A</th>
<th>CLASS A</th>
</tr>
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<tbody>
<tr>
<td>NSN:</td>
<td></td>
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<tr>
<td></td>
<td>8030-00-851-8379</td>
<td>8030-00-262-9045</td>
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<td>CS3201 B-2 2.5 OZ</td>
<td>CS23201 B-4</td>
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<td>8030-01-050-8287</td>
<td>8030-00-559-6131</td>
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<td>CS3201 A1/2 BLK QT</td>
<td>CS3201 A-2 BLK QT</td>
<td>CS3201 A-2 PINT</td>
</tr>
</tbody>
</table>
CLASSIFICATION OF THE MIXTURE:
FLAMMABLE LIQUIDS - (CATEGORY 2)
SKIN SENSITIZATION - (CATEGORY 1)
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
CARCINOGENICITY - Category 2
RESPIRATORY SENSITIZATION - Category 1
REPRODUCTIVE TOXICITY - CATEGORY 2
GERM CELL MUTAGENICITY - CATEGORY 2
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - CATEGORY 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - (NARCOTIC EFFECTS) - CATEGORY 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - CATEGORY 2
ACUTE TOXICITY - (ORAL) - CATEGORY 4
ASPIRATION HAZARD - CATEGORY 1
CHRONIC, AQUATIC - Category 4

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

GHS LABEL REQUIREMENTS
HAZARD PICTOGRAMS

SIGNAL WORD: DANGER

HAZARD STATEMENTS:

FLAMMABLE LIQUID AND VAPOR (H226)
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - (H304)
MAY CAUSE DROWSINESS OR DIZZINESS - (H336)
MAY CAUSE DAMAGE TO ORGANS - (H371)
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - (H373)
MAY CAUSE AN ALLERGIC SKIN REACTION - (H317)
SUSPECTED OF CAUSING GENETIC DEFECTS - (H341)
CAUSES SERIOUS EYE IRRITATION - (H319)
CAUSES SKIN IRRITATION - (H315)
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD - (H361)
SUSPECTED OF CAUSING CANCER - (H351)
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED - (H334)
HARMFUL IF SWALLOWED - H302
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - (H413)
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+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 (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.

1-component mixtures: formaldehyde is released during the curing phase. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause the skin to become sensitized.

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

Emits toxic fumes when heated.

HAZARDS NOT OTHERWISE CLASSIFIED:

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

Dust from grinding or abrading may be hazardous if inhaled. Dust may also form concentrations in air that are explosive hazards. This material emits toxic fumes when heated or burned.

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 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)

GHS CLASSIFICATION: LIQUID 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)
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

Calcium Carbonate:
GHS Classification: Calcium Carbonate
Eye Damage (Category 1)
Skin Irritation (Category 2)
Specific Target Organ Toxicity-Single Exposure (Category 3)

Carbon Black:
MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR

Proprietary Adhesion Promoter:
Acute Toxicity (Inhalation) - (Category 4)
Skin Corrosion / Irritation - (Category 2)
Serious Eye Damage / Eye Irritation - (Category 2A)
Respiratory Sensitization - (Category 1)
Skin Sensitization - (Category 1)
Germ Cell Mutagenicity - (Category 2)
Carcinogenicity - (Category 1A)
Specific Target Organ Toxicity (Repeated Exposure) - (STOT RE) - (Category 2)

Liquid Phenolic Resin:
Skin Sensitization (Category 1)
Carcinogenicity (Category 2)
Acute Toxicity (Category 3), (Dermal)
Acute Toxicity (Category 3) (Inhalation)
Acute Toxicity (Category 3) (Oral)
Aquatic Acute (Category 3)
Flammable Liquid (Category 4)
Skin Corrosion (Category 1B)
Specific Target Organ Toxicity-Single Exposure - STOT SE - (Category 3)

Bisphenol A- Epoxy Resin with Toluene
Flammable Liquids - Category 2
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Skin Sensitization - Category 1
Toxic to Reproduction (Unborn Child) - Category 2
Specific Target Organ Toxicity (Single Exposure) (Narcotic Effects) - Category 3
Aquatic Hazard (Acute) - Category 2
Aquatic Hazard (Long Term) - Category 3
### 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. Never give anything by mouth to an unconscious person.

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>% by weight in the product</th>
<th>H&amp;P STATEMENTS</th>
<th>CAS</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIQUID POLYMER</td>
<td>&lt;70%</td>
<td>H319,H335,H315,H412,H223, P210,P270,P305+P351+P338, +P313,P306+P361,P370+P260</td>
<td>N/A</td>
<td>POLYMER</td>
</tr>
<tr>
<td>CARBON BLACK</td>
<td>&lt;3%</td>
<td>May form combustible dust concentrations in air.</td>
<td>1333-86-4</td>
<td>N/A</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>&lt;45%</td>
<td>H319</td>
<td>72608-12-9</td>
<td>207-439-9</td>
</tr>
<tr>
<td>Bisphenol A- Epoxy Resin with Toluene &lt;3%</td>
<td></td>
<td>H225, H319, H315, H317, H361d, H336, H400, H412</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Liquid Phenolic Resin</td>
<td>&lt;2%</td>
<td>H227, H301, H311, H314, H317, H331, H335, H351, H402, P201, P202, P261, P272, P280, P302+P352, P308+P333, P321, P333+P313, P362+P364, P405, P501</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Proprietary Adhesion Promoter &lt;3%</td>
<td></td>
<td>H332, H319, H315, H334, H317, H350, H341, H373</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Section -5. FIRE-FIGHTING MEASURES

Extinguishing agents

**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.

**HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE:**

- Carbon Monoxide
- Sulfur Oxides
- Carbon Dioxide
- Formaldehyde
- Aldehydes
- Low Molecular Weight Hydrocarbons
- Halogenated Compounds
- Oxides of Carbon, Sulfur Dioxide, Trace Hydrogen Sulfide
- Metal Oxide / Oxides
- Smoke
- Oxides of Nitrogen
- Calcium Oxide

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

Avoid exposure during pregnancy

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 TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIQUID POLYMER *</td>
<td>Not known</td>
<td>Not known</td>
</tr>
<tr>
<td>LIQUID 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>CARBON BLACK *</td>
<td>3.5 mg/m³</td>
<td>3.0 mg/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.
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 º F (20 º C) Liquid
- Flash point: 40 º F (4 º C) Method: TCC
- Specific gravity at: 68 º F (20 º C) N/A
- Vapor Density: NIL
- Lower Explosive Limit (% vol.): N/A
- Upper Explosive Limit (% vol.): N/A
- Miscibility in water at 20 º C: NEGLIGIBLE
- VOC: N/A
- Ph: N/A
- Volatile by VOLUME: N/A
- Vapor pressure at: 68 º F (20 º C) NIL
- Color: BLACK
- Appearance: PASTE
- Odor: Polysulfide Odor
- Boiling Point: Unknown
- Material Supports Combustion: Yes

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
- Aldehydes
- Low Molecular Weight Hydrocarbons
- Halogenated Compounds
- Oxides of Carbon, Sulfur Dioxide, Trace Hydrogen Sulfide
- Metal Oxide / Oxides
- Smoke
- Oxides of Nitrogen
- Calcium Oxide

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 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>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>
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<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>8000 ppm</td>
<td>4 Hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>8.39 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>636 mg/kg</td>
<td>-</td>
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<tr>
<td>Bisphenol A- Epoxy Resin</td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 ORAL</td>
<td>Rat</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;8000 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**FLAMMABLE LIQUID AND VAPOR (H226)**
- MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - (H304)
- MAY CAUSE DROWSINESS OR DIZZINESS - (H336)
- MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - (H373)
- MAY CAUSE AN ALLERGIC SKIN REACTION - (H317)
- SUSPECTED OF CAUSING GENETIC DEFECTS - (H341)
- CAUSES SERIOUS EYE IRRITATION - (H319)
- CAUSES SKIN IRRITATION - (H315)
- SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD - (H361)
- SUSPECTED OF CAUSING CANCER - (H351)
- MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED - (H334)
- MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - (H413)

### CARCINOGENICITY:

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>IARC</th>
<th>OSHA</th>
<th>NTP</th>
<th>CAS#</th>
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<tbody>
<tr>
<td>TOLUENE</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>108-88-3</td>
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<tr>
<td>Carbon Black</td>
<td>2B</td>
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<td>1333-86-4</td>
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</tbody>
</table>

### SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)
- LIQUID POLYMER - CATEGORY 3
- LIQUID POLYMER - CATEGORY 3
- TOLUENE - CATEGORY 3

### SPECIFIC TARGET ORGAN TOXICITY-STOT (REPEATED EXPOSURE)
- TOLUENE - CATEGORY 2

### TERATOGENICITY:
- Bisphenol A- Epoxy Resin with Toluene - 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

12. ECOLOGICAL INFORMATION
There is no data available on the preparation itself. 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>Test / Exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>LC50 (96 Hrs.)</td>
<td>Brachydanio Rerio</td>
<td>&gt;1000 mg/L</td>
</tr>
<tr>
<td></td>
<td>EC50 (24 Hrs.)</td>
<td>Daphnia Magna</td>
<td>&gt;5600 mg/L</td>
</tr>
<tr>
<td>Toluene</td>
<td>EC50 (48 Hrs.)</td>
<td>Daphnia</td>
<td>3.78 mg/l</td>
</tr>
<tr>
<td></td>
<td>LC50 (96 Hrs.)</td>
<td>Fish</td>
<td>5.5 mg/l</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 (5 days - 81 %)</td>
</tr>
<tr>
<td>bisphenol A - epoxy resins</td>
<td>-</td>
<td>-</td>
<td>Not Readily Biodegradable (28 days - 5%)</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>bisphenol A - epoxy resins</td>
<td>-</td>
<td>31</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.

All surplus and waste products should be disposed of by a licensed waste disposal contractor. Empty containers and / or liners may retain product residues. Dispose of this material and its container as a hazardous waste per Federal , State, and 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.
14. TRANSPORT INFORMATION

DOT: § 172.101 HAZARDOUS MATERIALS TABLE
UN Number: 1133
Proper Shipping Name: Adhesives
Labels: Flammable Liquid

IATA:
UN Number: 1133
Proper Shipping Name: Adhesives
Labels: Flammable Liquid

Hazard Class: 3 Subclass: NO
Packaging Group: III
Passenger Air Packing Instruction: 309
Passenger aircraft: 60 Liter (16 gallon)
Cargo Air Packing Instruction: 310
Cargo aircraft only: 220 Liter (58 gallon)

Hazard Class: 3 Subclass: NO
Packaging Group: III
Limited Quantity: Passenger aircraft: 60 Liter (16 gallon)
Cargo aircraft only: 220 Liter (58 gallon)
Vessel stowage: A
ERG: 128
NMFC: 4620 SUB.6 – CL.60
Schedule B #: 3506.91.0000

IMDG:
UN Number: 1133
Proper Shipping Name: Adhesives
Label: 3
Hazard Class: 3 Subclass: NO
Packaging Group: III
EMS No: F, E – S, D

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)

<table>
<thead>
<tr>
<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;2%</td>
<td>Unknown</td>
</tr>
<tr>
<td>LIQUID POLYMER</td>
<td>N/A</td>
<td>&lt;70%</td>
<td>Unknown</td>
</tr>
<tr>
<td>LIQUID POLYMER</td>
<td>N/A</td>
<td>&lt;70%</td>
<td>Unknown</td>
</tr>
<tr>
<td>Calcium Carbonate</td>
<td>72608-12-9</td>
<td>&lt;45%</td>
<td>Unknown</td>
</tr>
<tr>
<td>Phenolic Resin</td>
<td>N/A</td>
<td>&lt;10%</td>
<td>Unknown</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>&lt;3%</td>
<td>Unknown</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
<table>
<thead>
<tr>
<th>Region</th>
<th>Substance</th>
<th>CAS Number</th>
<th>Comparison 1</th>
<th>Comparison 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Proposition 65</td>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt; 2%</td>
<td>≥ 1.0%</td>
</tr>
<tr>
<td>Massachusetts</td>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt; 2%</td>
<td>≥ 1.0%</td>
</tr>
<tr>
<td>New Jersey</td>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt; 2%</td>
<td>≥ 1.0%</td>
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</tr>
</tbody>
</table>
United States: Sara 302/304 (Sara 304 RQ): Not Applicable
Information On Ingredients: None Were Found
Sara 311/312
Classification: Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

Information On Ingredients:
Liquid Polymer: Immediate (acute) Health Hazard
Liquid Polymer: Immediate (acute) Health Hazard
Toluene: Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard
Proprietary Adhesion Promoter: Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard
Phenolic Resin: Acute Health Hazard, Chronic Health Hazard
Bisphenol A- Epoxy Resin with Toluene: Fire Hazard, Immediate Acute Health Hazard, Chronic Health Hazard
Carbon Black: Chronic Health Hazard, Fire 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

Class D - Poisonous and Infectious
materials Division 2: Materials Causing
Other Toxic Effects D2A TOLUENE D2B
TOLUENE CAS# 108-88-3
Liquid Polymer CAS# N/A
Liquid Polymer CAS# N/A
Carbon Black Cas# 1333-86-4
Calcium Carbonate CAS# 72608-12-9

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
Liquid Polymer cas# N/A
Liquid Polymer cas# N/A
Carbon Black Cas#1333-86-4
Phenolic Resin Cas# Not Available
Customer and / or end user is responsible for determining Personal Protection Equipment

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**NFPA**

<table>
<thead>
<tr>
<th>FLAMMABILITY</th>
<th>HEALTH</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
<td>0</td>
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</table>

**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.

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End of Safety Data Sheet