

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

1.1. Product Identifier: CS-5306 Part B All Classes (all application times)  
 - Product Name: Polythioether Quick Repair Fuel Tank Sealant / Catalyst Part B  
 - Product reference: CS-5306-B

**1.2. Product Use:**  
 - Polythioether Quick Repair Fuel Tank Sealant

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

**1.3.1 Suppliers Name ( if not manufacturer )**

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

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

**Specification: AMS 3277 TYPE 1**

**Catalyst Part B**

**ALL CLASSES**

| NSN: | 8030-01-330-0726<br>CS5306A1/4 2.5OZ  | 8030-01-330-6568<br>CS5306A1/2 2.5 OZ | 8030-01-330-0730<br>CS5306A1/2 6OZ.  | 8030-01-330-0728<br>CS5306 A1/2 1/2 PT | 8030-01-330-0729<br>CS5306 A1/2 PINT  |
|------|---------------------------------------|---------------------------------------|--------------------------------------|--|---------------------------------------|
|      | 8030-01-330-0732<br>CS5306A1/2 QUART  | 8030-01-330-0731<br>CS5306A1/2 GAL    | 8030-01-330-0733<br>CS5306A1/2 5-GAL | 8030-01-330-0734<br>CS5306A1/2 50-GAL  | 8030-01-330-0745<br>CS5306A1 2.5 OZ   |
|      | 8030-01-330-3437<br>CS5306A1 6OZ.     | 8030-01-329-9999<br>CS5306A1 1/2 PINT | 8030-01-330-2578<br>CS5306A1 PINT    | 8030-01-330-0737<br>CS5306A1 QUART     | 8030-01-330-0736<br>CS5306A1 GAL      |
|      | 8030-01-330-2579<br>CS5306A1 5-GAL    | 8030-01-329-9998<br>CS5306A1 50-GAL   | 8030-01-331-3233<br>CS5306B-1 50 GAL | 8030-01-290-5138<br>CS5306B-2 2.5 OZ   | 8030-01-290-5139<br>CS5306B-2 6OZ     |
|      | 8030-01-290-5134<br>CS5306B1/4 2.5 OZ | 8030-01-290-5135<br>CS5306B1/4 6OZ    | 8030-01-290-5136<br>CS5306B1/2 2.5OZ | 8030-01-290-5137<br>CS5306B1/2 6OZ     | 8030-01-330-6571<br>CS5306B1/2 1/2 PT |
|      | 8030-01-330-8631<br>CS5306B1/2 PINT   | 8030-01-330-8632<br>CS5306B1/2 QUART  | 8030-01-330-6569<br>CS5306B1/2 GAL   | 8030-01-330-6570<br>CS5306B1/2 5-GAL   | 8030-01-330-6572<br>CS5306B-1 50-GAL  |
|      | 8030-01-331-0694<br>CS5306B-1 1/2 PT  | 8030-01-330-9114<br>CS5306B-1 PINT    | 8030-01-330-9500<br>CS5306B-1 QUART  | 8030-01-330-9501<br>CS5306B-1 GAL      | 8030-01-331-0693<br>CS5306B-1 5-GAL   |
|      | 8030-01-438-4103<br>CS5306 B2 GAL     |                                       |                                      |  |                                       |

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

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SKIN CORROSION / IRRITATION - CATEGORY 2

SERIOUS EYE DAMAGE / EYE IRRITATION - CATEGORY 2

SKIN SENSITIZATION 1,  
CARCINOGENICITY 2,

ASPIRATION HAZARD - (CATEGORY 1)

ACUTE TOXICITY,ORAL - CATEGORY 4

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (RESPIRATORY EFFECT) - CATEGORY 3

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (NARCOTIC EFFECT) - CATEGORY 3

TOXIC TO REPRODUCTION - CATEGORY 2

REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION

AQUATIC (CHRONIC) - CATEGORY 4

**OSHA / HCS STATUS :** THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Human and Environmental Hazards:

**HAZARD STATEMENTS:**

HARMFUL IF SWALLOWED - H302

CAUSES SKIN IRRITATION - H315

CAUSES SERIOUS EYE IRRITATION - H319

MAY CAUSE AN ALLERGIC SKIN REACTION - H317

SUSPECTED OF CAUSING CANCER - H351

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304

MAY CAUSE DROWSINESS OR DIZZINESS - H336

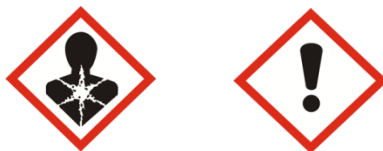
MAY CAUSE HARM TO BREAST FED CHILDREN - H362

SUSPECTED OF DAMAGING FERTILITY. SUSPECTED OF DAMAGING THE UNBORN CHILD - H361fd

MAY CAUSE RESPIRATORY IRRITATION - H335

MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - H413

**HAZARD PICTOGRAMS:**



**SIGNAL WORD:**

**DANGER**

**GENERAL PRECAUTIONARY STATEMENTS:**

P101: If medical advise is needed, have product container or label at hand.

P102: keep out of reach of children.

P103: Read label before use.

**Full text of P statements associated to this compound:**

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe dust / fumes / gas / mist / vapors / spray.
- P261: Avoid breathing dust / fumes / gas / mist / vapors / spray.
- P263: Avoid contact during pregnancy / while nursing.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P271: Use only outdoors or in a well - ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves / protective clothing / eye protection / face protection.
- P281: Use personal protection equipment as required.
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER / doctor / ...
- P301+312: IF SWALLOWED: Call a POISON CENTER / doctor / .../ if you feel unwell.
- P302+352: IF ON SKIN: Wash with plenty of water / ...
- P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+351+338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do-
- P308+313: If exposed: Call a POISON CENTER or doctor / physician.
- P312: Call a POISON CENTER / doctor /... / if you feel unwell.
- P321: Specific treatment...See Label Information
- P330: Rinse mouth
- P331: Do NOT induce vomiting.
- P332+313: If skin irritation occurs: Get medical advice / attention.
- P333+313: If skin irritation or a rash occurs: Get medical advice / attention.
- P337+313: If eye irritation persists: Get medical advice / attention.
- P362: Take off all contaminated clothing.
- P363: Wash contaminated clothing before reuse.
- P403+233: Store in a well ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents / containers in accordance with local / regional / national / international regulations

**ADDITIONAL LABEL ELEMENTS:** Dust from grinding or abrading may be harmful if inhaled.

Trimethoxysilanes may form methanol if hydrolyzed or ingested. If ingested, methanol may be harmful or cause blindness. It may also be fatal. This product emits toxic (poisonous) fumes when heated and (or) burned.

**HAZARDS NOT OTHERWISE CLASSIFIED:** None Known

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

H372 Causes damage to organs through prolonged or repeated exposure.

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

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**Chemical family :** Mixture of organic compounds

For the hazards of the composition, ( SDS see Section 2).

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|--------------------------------|-----------------|---------------|----------------|
| <b>BISPHENOL-A-EPOXY RESIN</b> | CAS# 25068-38-6 | EC# 500-033-5 | <65% By Weight |
|--------------------------------|-----------------|---------------|----------------|

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OSHA HAZARDS: Skin Sensitiser,Irritant

GHS CLASSIFICATION: EPOXY RESIN

SKIN IRRITATION (CATEGORY 2)

EYE IRRITATION (CATEGORY 2A)

SKIN SENSITIZATION (CATEGORY 1)

ACUTE AQUATIC TOXICITY (CATEGORY 2)

CHRONIC AQUATIC TOXICITY (CATEGORY 2)

|                              |                 |               |                 |
|------------------------------|-----------------|---------------|-----------------|
| <b>HYDANTOIN EPOXY RESIN</b> | CAS# 15336-82-0 | EC# 239-366-3 | < 10% By Weight |
|------------------------------|-----------------|---------------|-----------------|

THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

MAY BE CORROSIVE

CAUSES EYE BURNS (RISK OF SERIOUS DAMAGE TO EYES)

TOXIC BY INGESTION

CAUSES SKIN IRRITATION

CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA

CONTAINS MATERIAL WHICH MAY CAUSE HERITABLE GENETIC EFFECTS

VERY TOXIC BY INHALATION

MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: LIVER

|                                    |                |               |                |
|------------------------------------|----------------|---------------|----------------|
| <b>CHEMICAL NAME: CARBON BLACK</b> | CAS# 1333-86-4 | EC# 215-609-9 | <10% By Weight |
|------------------------------------|----------------|---------------|----------------|

NOT CLASSIFIED

**CHEMICAL NAME:**

|  |                 |         |                |
|--|-----------------|---------|----------------|
| <b>Poly[(phenyl glycidyl ether)-co-formaldehyde]</b> | CAS# 28064-14-4 | EC# N/A | <40% By Weight |
|--|-----------------|---------|----------------|

SKIN SENSITIZATION - Sub Category 1B

|   |               |         |                |
|---|---------------|---------|----------------|
| <b>CHEMICAL NAME: CALCIUM CARBONATE</b> | CAS# 471-34-1 | EC# N/A | <35% By Weight |
|---|---------------|---------|----------------|

|  |                 |               |                |
|--|-----------------|---------------|----------------|
| <b>CHEMICAL NAME: IRON OXIDE (SYNTHETIC)</b> | CAS# 12227-89-3 | EC# 235-442-5 | <20% By Weight |
|--|-----------------|---------------|----------------|

**Hazards Identification:** This product may auto-oxidize if exposed to heat. Inhalation can cause lung irritation or fibrosis.

THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Due to its potential to auto-oxidize (self heat).

**CHEMICAL NAME:**

|  |               |              |                |
|--|---------------|--------------|----------------|
| <b>(3-Glycidyloxypropyl)trimethoxysilane</b> | CAS#2530-83-8 | EC#219-784-2 | <10% By Weight |
|--|---------------|--------------|----------------|

GHS CLASSIFICATION in accordance with 29 CFR 1910 (OSHA HCS)

SERIOUS EYE DAMAGE (CATEGORY 1), H318

ACUTE AQUATIC TOXICITY (CATEGORY 3), H402

**CHEMICAL NAME:****Iron (III) Dimethyldithiocarbamate**

CAS#14484-64-1

EC# N/A

&gt; .1% &lt; 1%

ACUTE TOXICITY (INHALATION) - CATEGORY 2

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

TOXIC TO REPRODUCTION - CATEGORY 2

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (NARCOTIC EFFECTS) - CATEGORY 3

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (RESPIRATORY TRACT IRRITATION) - CATEGORY 3

SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 2

AQUATIC (ACUTE) - CATEGORY 1

AQUATIC (CHRONIC) - CATEGORY 1

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

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**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:** Check for and remove any contact lenses. Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart. 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.

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

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**Extinguishing agents**

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

**Agents to avoid:** None known

**Attention**

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

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

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

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.

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

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, Nitrogen Oxides, Smoke Metal Oxide / Oxides, Halogenated Compounds, Toxic Fumes, Soot, Phenolics

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**Section -6. ACCIDENTAL RELEASE MEASURES**

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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.

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.

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.

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**Section -7. HANDLING AND STORAGE**

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**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

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**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**

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

| <b>Substance</b>     | <b>ACGIH TLV</b>                                      |
|----------------------|---|
| CALCIUM CARBONATE    | TWA: 3 mg/m <sup>3</sup> 8 hours Form : Respirable    |
|                      | TWA: 10 mg/m <sup>3</sup> 8 hours Form Total Dust     |
|                      | <b>OSHA PEL</b>                                       |
|                      | TWA: 5 mg/m <sup>3</sup> 8 hours Form: Respirable     |
|                      | TWA: 15 mg/m <sup>3</sup> 8 hours Form: Total Dust    |
| CARBON BLACK         | <b>ACGIH TLV</b>                                      |
|                      | TWA: 3 mg/m <sup>3</sup> 8 hours (Inhalable Fraction) |
|                      | <b>OSHA PEL</b>                                       |
|                      | TWA: 3.5 mg/m <sup>3</sup> 8 hours                    |
|                      | <b>ACGIH TLV</b>                                      |
| Synthetic Iron Oxide | 15 mg/m <sup>3</sup>                                  |

### 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

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Physical state at: 68 ° F (20 ° C) Liquid

Flash point: 200 ° F (93 ° C) Method: TCC

Color: BLACK

Appearance: PASTE

Odor: NEGLIGIBLE OILY ODOR

Odor Threshold : Data Not Available for Mixture

pH : Data Not Available for Mixture

Melting Point / Freezing Point : Data Not Available for Mixture

Initial Boiling Point and Boiling Range : Data Not Available for Mixture

Evaporation Rate : Data Not Available for Mixture

Flammability (solid, gas) : Data Not Available for Mixture

Upper / Lower Flammability or Explosive Limits : Data Not Available for Mixture

Vapor Pressure : Data Not available for Mixture

Vapor Density : Data Not Available for Mixture

Relative Density : Data Not Availabe For Mixture

Solubility (ies) : Data Not Available for Mixture

Partition Coefficient : n-octanol / water : Data Not Available for Mixture

Auto-ignition Temperature : Data Not Available for Mixture

Decomposition Temperature : Data Not Available for Mixture

Viscosity : Data Not Available for Mixture

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**10. STABILITY AND REACTIVITY**

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Stable under recommended storage and handling conditions (see SDS section 7).

Reactivity : Data Not Available for Mixture

Chemical Stability : Data Not Available for Mixture

Possibility of Hazardous Reactions : Data Not Available for Mixture

Conditions to Avoid : Data Not Available for Mixture

Incompatible Materials : Data Not Available for Mixture

HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

- Carbon monoxide
- Smoke
- Carbon Dioxide
- Oxides of nitrogen
- Metal Oxide / Oxides
- Halogenated Compounds
- Toxic Fumes
- Phenolics
- Soot

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.

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**11. TOXICOLOGICAL INFORMATION**

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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

**ACUTE TOXICITY:**

| PRODUCT:                | RESULT                      | SPECIES | DOSE                    | EXPOSURE |
|-------------------------|-----------------------------|---------|-------------------------|----------|
| Bisphenol-A-Epoxy Resin | LD50 DERMAL                 | Rabbit  | >2 g/kg                 | -        |
|                         | LD50 ORAL                   | Rat     | 11.4 g/kg               | -        |
| Calcium Carbonate       | LD50 ORAL                   | Rat     | 6450 mg/kg              | -        |
| Carbon Black            | LD50 Dermal                 | Rabbit  | >3 g/kg                 | -        |
|                         | LD50 Oral                   | Rat     | >15400mg/kg             | -        |
| Trimethoxysilane        | LC50 Inhalation Dust & Mist | Rat     | >5300 mg/m <sup>3</sup> | 4 hours  |
|                         | LD50 Dermal                 | Rabbit  | 4.3 g/kg                | -        |
|                         | LD50 Oral                   | Rat     | 7.01 g/kg               | -        |
| Hydantoin Epoxy Resin   | LD50 Oral                   | Rat     | 300 mg/kg               | -        |
|                         | LD50 Dermal                 | Rabbit  | >3000 mg/kg             | -        |
|                         | LC50 Inhalation             | Rat     | >4.1 mg/cu.m            | 4 hours  |
| Phenol-Formaldehyde     | LD50 Oral                   | Rat     | >4000 mg/kg             | -        |
|                         | Novolac+Epichlorohydrin     | Rabbit  | >2000 mg/kg             | -        |

**CARCINOGENICITY:**

| INGREDIENT                      | IARC | OSHA | NTP |
|---------------------------------|------|------|-----|
| Carbon Black, Respirable Powder | 2B   | -    | -   |

**Potential chronic health effects include the following:**

May cause allergic reactions.

Suspected of causing cancer.

This Product is Harmful if Swallowed or Inhaled.

This Product also Causes Serious Eye Irritation.

This Product Causes Skin Irritation, Defatting of the Skin, and May Cause an Allergic Reaction or Skin Sensitization

MAY CAUSE DROWSINESS OR DIZZINESS

SUSPECTED OF DAMAGING FERTILITY. SUSPECTED OF DAMAGING THE UNBORN CHILD

MAY CAUSE HARM TO BREAST FED CHILDREN

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**Target Organs:** lungs, skin, central nervous system, blood, kidneys, nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, bone marrow, eye, lens, cornea

**ASPIRATION HAZARD:**

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

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**12. ECOLOGICAL INFORMATION**

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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.

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.

**Bioaccumulative Potential:**

Not Available

**Mobility in Soil:**

Not Available

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**13. DISPOSAL CONSIDERATIONS**

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

React with base 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.

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**14. TRANSPORT INFORMATION**

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**DOT:** Not regulated

**UN Number:** Not regulated

UN Proper Shipping Name : N/A

Transport Hazard Class : N/A

Packing Group : N/A

Environmental Hazards : No

Marine Pollutant Substances : N/A

**IMDG**

**UN Number:** 3082

UN Proper Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S.  
(reaction product: bisphenol-A-(epichlorhydrin); epoxy resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)

Transport Hazard Class : 9

Packing Group : III

Environmental Hazards : Yes

Marine Pollutant Substances: (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700)

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**IATA**

UN Number: 3082  
 UN Proper Shipping Name : Environmentally Hazardous Substance, Liquid, N.O.S.  
 (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700))

Transport Hazard Class : 9  
 Packing Group : III  
 Environmental Hazards : Yes  
 Marine Pollutant Substances: (reaction product: bisphenol-A-(epichlorhydrin); epoxy resin, Phenol, polymer with formaldehyde, glycidyl ether (MW<=700))

**NMFC:** 4620 SUB.5 – CL.60  
**Schedule B #** 3506.91.0000

**Additional Information:**

IMDG : Not regulated as hazardous material in sizes ≤ 5L or ≤ 5kg,  
 as long as packaging meets the provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

IATA : Not regulated as hazardous material in sizes ≤ 5L or ≤ 5kg,  
 as long as packaging meets the provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8

**15. REGULATORY INFORMATION****SARA 304 RQ : NOT REQUIRED (NO MATERIALS FOUND)****SARA 311/312**

Classification: Immediate (acute) health hazard  
 Delayed (chronic) health hazard

**Composition of Ingredients :**

REACTION PRODUCT: bisphenol-A-(epichlorhydrin) epoxy resin : Immediate (Acute) Health Hazard  
 Phenol, polymer with formaldehyde, glycidyl ether (MW<=700) : Immediate (Acute) Health Hazard  
 Carbon Black, Respirable Powder : Fire Hazard  
 : Delayed (Chronic) Health Hazard  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane : Immediate (Acute) Health Hazard  
 Synthetic Iron Oxide : Delayed (Chronic) Health Hazard

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

**US Regulations Federal**

| chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA) | Chemical Name | CAS No     | Weight % | Threshold limit (Reporting Value) |
|---|---------------|------------|----------|-----------------------------------|
| Bisphenol A Epoxy Resin   |               | 25068-38-6 | <65%     | unknown                           |
| Phenol Polymer with Formaldehyde  |               | 28064-14-4 | <40%     | unknown                           |
| Calcium Carbonate   |               | 471-34-1   | <35%     | unknown                           |
| Carbon Black  |               | 1333-86-4  | <10%     | unknown                           |
| Trimethoxysilane  |               | 2530-83-8  | <10%     | unknown                           |
| Hydantoin Epoxy Resin   |               | 15336-82-0 | <10%     | unknown                           |
| Synthetic Iron Oxide  |               | 12227-89-3 | <20%     | unknown                           |
| Iron(III) Dimethyldithiocarbamate   |               | 14484-67-1 | >.1% <1% | unknown                           |

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

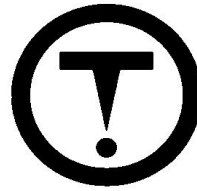
**US Regulations State**

|   |   |            |          |        |
|---|---|------------|----------|--------|
| California Proposition 65<br>(Developmental – Female) | <b>Bisphenol A Epoxy Resin</b>              | 25068-38-6 | <65%     | >=1.0% |
| Massachusetts   | <b>Bisphenol A Epoxy Resin</b>              | 25068-38-6 | <65%     | >=1.0% |
| New Jersey  | <b>Bisphenol A Epoxy Resin</b>              | 25068-38-6 | <65%     | >=1.0% |
| Pennsylvania  | <b>Bisphenol A Epoxy Resin</b>              | 25068-38-6 | <65%     | >=1.0% |
| Rhode Island  | <b>Bisphenol A Epoxy Resin</b>              | 25068-38-6 | <65%     | >=1.0% |
| California Proposition 65<br>(Developmental – Female) | <b>Phenol polymer with<br/>Formaldehyde</b> | 28064-14-4 | <40%     | >=1.0% |
| Massachusetts   | <b>Phenol polymer with<br/>Formaldehyde</b> | 28064-14-4 | <40%     | >=1.0% |
| New Jersey  | <b>Phenol polymer with<br/>Formaldehyde</b> | 28064-14-4 | <40%     | >=1.0% |
| Pennsylvania  | <b>Phenol polymer with<br/>Formaldehyde</b> | 28064-14-4 | <40%     | >=1.0% |
| Rhode Island  | <b>Phenol polymer with<br/>Formaldehyde</b> | 28064-14-4 | <40%     | >=1.0% |
| California Proposition 65<br>(Developmental – Female) | <b>Calcium Carbonate</b>                    | 471-34-1   | <35%     | >=1.0% |
| Massachusetts   | <b>Calcium Carbonate</b>                    | 471-34-1   | <35%     | >=1.0% |
| New Jersey  | <b>Calcium Carbonate</b>                    | 471-34-1   | <35%     | >=1.0% |
| Pennsylvania  | <b>Calcium Carbonate</b>                    | 471-34-1   | <35%     | >=1.0% |
| Rhode Island  | <b>Calcium Carbonate</b>                    | 471-34-1   | <35%     | >=1.0% |
| California Proposition 65<br>(Developmental – Female) | <b>Carbon Black</b>                         | 1333-86-4  | <10%     | >=1.0% |
| Massachusetts   | <b>Carbon Black</b>                         | 1333-86-4  | <10%     | >=1.0% |
| New Jersey  | <b>Carbon Black</b>                         | 1333-86-4  | <10%     | >=1.0% |
| Pennsylvania  | <b>Carbon Black</b>                         | 1333-86-4  | <10%     | >=1.0% |
| Rhode Island  | <b>Carbon Black</b>                         | 1333-86-4  | <10%     | >=1.0% |
| California Proposition 65<br>(Developmental – Female) | <b>Trimethoxysilane</b>                     | 2530-83-8  | <10%     | >=1.0% |
| Massachusetts   | <b>Trimethoxysilane</b>                     | 2530-83-8  | <10%     | >=1.0% |
| New Jersey  | <b>Trimethoxysilane</b>                     | 2530-83-8  | <10%     | >=1.0% |
| Pennsylvania  | <b>Trimethoxysilane</b>                     | 2530-83-8  | <10%     | >=1.0% |
| Rhode Island  | <b>Trimethoxysilane</b>                     | 2530-83-8  | <10%     | >=1.0% |
| California Proposition 65<br>(Developmental – Female) | <b>Hydantoin Epoxy Resin</b>                | 15336-82-0 | <10%     | >=1.0% |
| Massachusetts   | <b>Hydantoin Epoxy Resin</b>                | 15336-82-0 | <10%     | >=1.0% |
| New Jersey  | <b>Hydantoin Epoxy Resin</b>                | 15336-82-0 | <10%     | >=1.0% |
| Pennsylvania  | <b>Hydantoin Epoxy Resin</b>                | 15336-82-0 | <10%     | >=1.0% |
| Rhode Island  | <b>Hydantoin Epoxy Resin</b>                | 15336-82-0 | <10%     | >=1.0% |
| California Proposition 65<br>(Developmental – Female) | <b>Synthetic Iron Oxide</b>                 | 12227-89-3 | <20%     | >=1.0% |
| Massachusetts   | <b>Synthetic Iron Oxide</b>                 | 12227-89-3 | <20%     | >=1.0% |
| New Jersey  | <b>Synthetic Iron Oxide</b>                 | 12227-89-3 | <20%     | >=1.0% |
| Pennsylvania  | <b>Synthetic Iron Oxide</b>                 | 12227-89-3 | <20%     | >=1.0% |
| Rhode Island  | <b>FERBUM</b>                               | 14484-64-1 | >.1% <1% | >=1.0% |
| Massachusetts   | <b>FERBUM</b>                               | 14484-64-1 | >.1% <1% | >=1.0% |
| New Jersey  | <b>FERBUM</b>                               | 14484-64-1 | >.1% <1% | >=1.0% |
| Pennsylvania  | <b>FERBUM</b>                               | 14484-64-1 | >.1% <1% | >=1.0% |

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**California Prop 65 Warning :**

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



materials Division 2: Materials Causing

Other Toxic Effects:

Bisphenol-A-epoxy resin

Phenol polymer with formaldehyde

carbon black

calcium carbonate

trimethoxysilane

hydantoin epoxy resin

synthetic iron oxide

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) :

**Bisphenol-A-epoxy resin Cas#25068-38-6**

**calcium carbonate Cas#471-34-1**

**Phenol polymer with formaldehyde Cas#28064-14-4**

**trimethoxysilane Cas#2530-83-8**

**carbon black Cas# 1333-896-4**

**hydantoin epoxy resin Cas#15336-82-0**

**synthetic iron oxide Cas# 12227-89-3**

HEALTH 2  
FLAMMABILITY 0  
REACTIVITY 0

HEALTH 2  
FLAMMABILITY 0  
REACTIVITY 0

Customer and / or end user is responsible for determining PPE

**NFPA**

**HMIS**

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**Section 16 Other Information**

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Preparer-Flamemaster/Compliance

Revision Date: 04/25/2019

Conversion to ANSI format

Containers: Plastic Jars, Metal Cans, Cartridge Kits

Maximum Container Size: 50 Gallons/190 Liters

**Notice to reader:**

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

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

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

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

**END OF SAFETY DATA SHEET**