



**FLAMEMASTER**  
**Flamemaster Corp.**  
 13576 Desmond Street  
 Pacoima, CA 91331 - USA

**SAFETY DATA SHEET**  
**NOVEMBER 1, 2019**

**File: CS5500AB GSA 07-10**  
**Corrosion Inhibitive**  
**Sealant / Base**

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

1.1. Product Identifier: CS-5500 C.I. Part-A Class-B Base (all application times) Corrosion Inhibiting Sealant  
 - Product Name: Corrosion Inhibiting High Temperature Sealant / Base compound / Part-A  
 - Product reference: CS-5500 C.I. Class B

1.2. Product Use:  
 -Corrosion Inhibiting High Temperature 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)

Emergency Contact Information :  
 See Below

**Specification: AMS 3265 / FMS3055-1      Base PART A      CLASS B      ALL**

<b>NSN:</b>	8030-01-364-7364 CS5500 C.I CL B2 PINT				
-------------	---	--	--	--	--

Emergency Contact:

CHEMTEL: WWW.CHEMTELINC.COM

Flamemaster Corporation Contract Number MIS2644301

Shipments of hazardous materials within United States, Canada, Puerto Rico, and U.S. Virgin Island should reference Chemtel's toll free phone number: 1-800-255-3924 - Reference Number MIS2644301

Shipments and safety applications outside of United States, Canada, Puerto Rico, and the U.S. Virgin Islands must reference Chemtel phone number +1-813-248-0585 - Reference Number MIS2644301

Collect Calls will be accepted. To ensure a bilingual operator please call collect.

Shipments originating in U.S.A. and going overseas must use both numbers.

Shipments originating overseas and destined for US, Canada, Puerto Rico or the Virgin Islands must also use both numbers.

Calls originating on board vessels should follow normal ship to shore protocols. Use international access number and alert the ship to shore operator you are involved in an emergency incident.

Shipments of hazardous materials within the listed countries should reference Chemtel's in-country phone numbers:

Australia : 1-300-954-583 : Reference Number MIS2644301

Brazil : 0-800-591-6042 : Reference Number MIS2644301

China : 400-120-0751 : Reference Number MIS2644301

India : 000-800-100-4086 : Reference Number MIS2644301

Mexico : 01-800-099-0731 : Reference Number MIS2644301

## 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  
ACUTE TOXICITY, (ORAL) - CATEGORY 4  
ACUTE TOXICITY (INHALATION) - CATEGORY 4  
ACUTE TOXICITY (DERMAL) - CATEGORY 4  
SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
TOXIC TO REPRODUCTION (UNBORN CHILD) - Category 2  
REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION  
RESPIRATORY SENSITISATION - CATEGORY 1  
SKIN SENSITIZATION - CATEGORY 1  
GERM CELL MUTAGENICITY-CATEGORY 2  
SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 3  
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (RESPIRATORY TRACT IRRITATION) - CATEGORY 3  
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (NARCOTIC EFFECTS) - CATEGORY 3  
AQUATIC (CHRONIC) - CATEGORY 4

Percentage of the mixture consisting of ingredient(s) of unknown toxicity - 4%

### GHS LABEL REQUIREMENTS

#### HAZARD PICTOGRAMS



#### SIGNAL WORD : DANGER

#### HAZARD STATEMENTS:

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304  
HARMFUL IF SWALLOWED - H302  
HARMFUL IF INHALED - H332  
HARMFUL IN CONTACT WITH SKIN - H312  
CAUSES SKIN IRRITATION - H315  
CAUSES SERIOUS EYE IRRITATION - H319  
SUSPECTED OF CAUSING CANCER - H351  
SUSPECTED OF DAMAGING THE UNBORN CHILD - H361d  
MAY CAUSE HARM TO BREAST-FED CHILDREN - H362  
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED - H334  
MAY CAUSE AN ALLERGIC SKIN REACTION - H317  
SUSPECTED OF CAUSING GENETIC DEFECTS - H341  
MAY CAUSE RESPIRATORY IRRITATION - H335  
MAY CAUSE DROWSINESS OR DIZZINESS - H336  
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373  
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - H413

#### GENERAL PRECAUTIONARY STATEMENTS:

P101: If medical advice is needed, have product container or label at hand.  
P102: keep out of reach of children.  
P103: Read label before use.

## SPECIFIC PRECAUTIONARY STATEMENTS ASSOCIATED WITH THIS PRODUCT:

- 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.
- P285 : In case of inadequate ventilation wear respiratory protection
- 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.
- P304+341 : IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable
- P305+351+338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do-continue rinsing.
- P308+313: If exposed: Call a POISON CENTER or doctor / physician.
- P312: Call a POISON CENTER / doctor /... / if you feel unwell.
- P314: Get medical advise / attention if you feel unwell.
- P321: Specific treatment...See Label Information
- P322: Specific Measures...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.
- P342+311: If experiencing respiratory symptoms: Call a POISON CENTER / doctor / ...
- 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

## 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.

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).

---

<b>PRODUCT / INGREDIENT</b>	<b>WEIGHT % IN PRODUCT</b>	<b>CAS #</b>
<b>GHS CLASSIFICATION: LIQUID POLYMER</b> Acute Toxicity (Dermal) - Category 4 Eye Irritation - Category 2B	< 15%	N/A
<b>GHS CLASSIFICATION: LIQUID POLYMER</b> Acute Toxicity (Dermal) - Category 4 Eye Irritation - Category 2B	< 15%	N/A
<b>GHS CLASSIFICATION: LIQUID POLYMER</b> Acute Toxicity (Dermal) - Category 4 Eye Irritation - Category 2B	<25%	N/A
<b>GHS CLASSIFICATION: Proprietary Adhesion Promoter Consisting of:</b> Proprietary Modified Polysulfide Polymer - 50 - 75% - Cas # Not Available Formaldehyde, Oligomeric reaction Products with Phenol - 10 - 20% - Cas# 9003-35-4 Phenol - 0.10 - 2.1 % Cas# 108-95-2 Formaldehyde, Solution < 1 % Cas# 50-00-0 ACUTE TOXICITY, (ORAL) - CATEGORY 3 ACUTE TOXICITY (DERMAL) - CATEGORY 4 ACUTE TOXICITY (INHALATION) - CATEGORY 2 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A RESPIRATORY SENSITISATION - CATEGORY 1 SKIN SENSITIZATION - CATEGORY 1 GERM CELL MUTAGENICITY-CATEGORY 2 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (RESPIRATORY TRACT IRRITATION) - CATEGORY 3 SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE - (NARCOTIC EFFECTS) - CATEGORY 3 SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 2	< 4%	N/A
<b>GHS CLASSIFICATION - Iron (III) Dimethyldithiocarbamate</b> ACUTE TOXICITY (INHALATION) - CATEGORY 2 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION - CATEGORY 2 SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE -CATEGORY 3 SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 2 AQUATIC (ACUTE) - CATEGORY 1 AQUATIC (CHRONIC) - CATEGORY 1	0.1%	14484-64-1

#### 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.

---

---

#### Section -5. FIRE-FIGHTING MEASURES

---

---

##### Extinguishing agents

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

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.

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

- Carbon Monoxide
- Sulfur Oxides
- Carbon Dioxide
- Formaldehyde
- Halogenated Compounds
- Oxides of Carbon, Nitrogen, Sulfur Dioxide, Trace Hydrogen Sulfide
- Metal Oxide / Oxides
- Smoke

Emits toxic fumes when heated.

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.

---

---

#### 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.

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.

---

---

**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.

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**

---

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

Substance	OSHA	ACGIH TWA
LIQUID POLYMER *	NONE	NONE
LIQUID POLYMER *	NONE	NONE
LIQUID POLYMER *	NONE	NONE
POLYSULFIDE POLYMER *	NONE	NONE
PHENOL *	19 mg/m <sup>3</sup> 8 HOURS	19 mg/m <sup>3</sup> 8 HOURS
FORMALDEHYDE *	2 ppm 15 MINUTES	0.37 mg/m <sup>3</sup>
DIMETHYLDITHIOCARBAMATE	15 mg/m <sup>3</sup> (Total Dust)	5 mg/m <sup>3</sup> (I)
* 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 ° F (20 ° C) Liquid
- Flash point: 200 ° F (93 ° C) Method: TCC
- Color: Grey
- Appearance: PASTE
- Odor: Polysulfide 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 Available 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

---

---

**10. STABILITY AND REACTIVITY**

---

---

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

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

- Carbon Monoxide
- Sulfur Oxides
- Carbon Dioxide
- Formaldehyde
- Halogenated Compounds
- Oxides of Carbon,Nitrogen,Sulfur Dioxide,Trace Hydrogen Sulfide
- Metal Oxide / Oxides
- Smoke

Emits toxic fumes when heated.

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. 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:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
LIQUID POLYMER	LD50 Oral	Rat	>3000mg/kg	-
LIQUID POLYMER	LD50 Oral	Rat	>3000mg/kg	-
LIQUID POLYMER	LD50 Oral	Rat	>3000mg/kg	-
Phenol	LC50 Inhalation Vapor	Rat	316 mg/m <sup>3</sup>	4 Hours
	LD50 Dermal	Rabbit	630 mg/kg	-
	LD50 Dermal	Rat	669 mg/kg	-
	LD50 Oral	Rat	0.317 g/kg	-
Formaldehyde, Solution	LC50 Inhalation Gas	Rat	250 ppm	4 Hours
	LD50 Oral	Rat	100mg/kg	-
	LD50 Dermal	Rabbit	270 mg/kg	-

### CARCINOGENICITY:

INGREDIENT	IARC	OSHA	NTP
Phenol	3	-	-
Formaldehyde	1	+	Known to be a human carcinogen
Dimethyldithiocarbamate	3	No data available	No data available

### SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

No Data Available for the Preparation Itself

### SPECIFIC TARGET ORGAN TOXICITY-STOT (REPEATED EXPOSURE)

No Data Available for the Preparation Itself

**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:

No Data Available for the Preparation Itself



---

---

**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.

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.

**Toxicity :**

Not Available

**Persistence and Degradability :**

Not Available

**Bioaccumulative Potential :**

Not Available

**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: Not regulated

UN Number: Not regulated

IATA: Not regulated

IMDG/IMO: Not regulated

NMFC: 4620 SUB.5 – CL.60

Schedule B # 3506.91.0000

**15. REGULATORY INFORMATION**

United States: Sara 302/304 (Sara 304 RQ):

Information on ingredients found in this product:

	SARA 302 TPQ lbs	gallons	SARA 304 RQ lbs	gallons	EHS
Phenol	500 / 10000	-	1000	-	YES
Formaldehyde, Solution	500	55	100	11	YES

SARA 311 and 312:	Immediate	Delayed	Fire	Pressure	Reactivity
LIQUID POLYMER	Y	N	N	N	N
LIQUID POLYMER	Y	N	N	N	N
LIQUID POLYMER	Y	N	N	N	N
PROPRIETARY MODIFIED POLYSULFIDE POLYMER	Y	N	N	N	N
FORMALDEHYDE REACTION PRODUCT WITH PHENOL	Y	N	Y	N	N
PHENOL	Y	Y	Y	N	N
FORMALDEHYDE, SOLUTION	Y	Y	Y	N	N

**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)
				unknown
	PHENOL	108-95-2	< 0.1%	unknown
	FORMALDEHYDE, SOLUTION	50-00-0	< 0.1%	unknown

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

**US Regulations State**

California Proposition 65 (Developmental – Female)	<b>Dimethyldithiocarbamate</b>	14484-64-1	< 0.1%	>= 1.0%
Massachusetts	<b>Dimethyldithiocarbamate</b>	14484-64-1	< 0.1%	>= 1.0%
New Jersey	<b>Dimethyldithiocarbamate</b>	14484-64-1	< 0.1%	>= 1.0%
Pennsylvania	<b>Dimethyldithiocarbamate</b>	14484-64-1	< 0.1%	>= 1.0%
Rhode Island	<b>Dimethyldithiocarbamate</b>	14484-64-1	< 0.1%	>= 1.0%
California Proposition 65 (Developmental – Female)	<b>Titanium Dioxide</b>	13463-67-7	< 2%	>= 1.0%
Massachusetts	<b>Titanium Dioxide</b>	13463-67-7	< 2%	>= 1.0%
New Jersey	<b>Titanium Dioxide</b>	13463-67-7	< 2%	>= 1.0%
Pennsylvania	<b>Titanium Dioxide</b>	13463-67-7	< 2%	>= 1.0%
Rhode Island	<b>Titanium Dioxide</b>	13463-67-7	< 2%	>= 1.0%
California Proposition 65 (Developmental – Female)	<b>Aluminum Hydroxide</b>	21645-51-2	< 2%	>= 1.0%
Massachusetts	<b>Aluminum Hydroxide</b>	21645-51-2	< 2%	>= 1.0%
New Jersey	<b>Aluminum Hydroxide</b>	21645-51-2	< 2%	>= 1.0%
Pennsylvania	<b>Aluminum Hydroxide</b>	21645-51-2	< 2%	>= 1.0%
Rhode Island	<b>Aluminum Hydroxide</b>	21645-51-2	< 2%	>= 1.0%
California Proposition 65 (Developmental – Female)	<b>Phenol</b>	108-95-2	< 0.1%	>= 1.0%
Massachusetts	<b>Phenol</b>	108-95-2	< 0.1%	>= 1.0%
New Jersey	<b>Phenol</b>	108-95-2	< 0.1%	>= 1.0%
Pennsylvania	<b>Phenol</b>	108-95-2	< 0.1%	>= 1.0%
Rhode Island	<b>Phenol</b>	108-95-2	< 0.1%	>= 1.0%
Florida	<b>Phenol</b>	108-95-2	< 0.1%	>= 1.0%
Minnesota	<b>Phenol</b>	108-95-2	< 0.1%	>= 1.0%
California Proposition 65 (Developmental – Female)	<b>Formaldehyde</b>	50-00-0	< 0.1%	>= 1.0%
Massachusetts	<b>Formaldehyde</b>	50-00-0	< 0.1%	>= 1.0%
New Jersey	<b>Formaldehyde</b>	50-00-0	< 0.1%	>= 1.0%
Pennsylvania	<b>Formaldehyde</b>	50-00-0	< 0.1%	>= 1.0%
Rhode Island	<b>Formaldehyde</b>	50-00-0	< 0.1%	>= 1.0%
Florida	<b>Formaldehyde</b>	50-00-0	< 0.1%	>= 1.0%
Minnesota	<b>Formaldehyde</b>	50-00-0	< 0.1%	>= 1.0%

**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.

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):

---

---

**16. OTHER INFORMATION**

---

---

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

HEALTH	2
FLAMMABILITY	0
REACTIVITY	0

Customer and / or end user is responsible for determining PPE

**NFPA**

**HMIS**

Preparer:	Flamemaster / Compliance	Revision Date: 11/01/2019	Conversion to ANSI format
Containers:	plastic jars, metal cans cartridge kits		
Limited Quantity	See SDS Section 14		
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**

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

1.1. Product Identifier: CS-5500 C.I. Part B Class B (all application times)  
- Product Name: Corrosion Inhibiting Sealant / Catalyst Part B  
- Product reference: CS-5500 C.I. CLB PTB

**1.2. Product Use:**  
- Corrosion Inhibiting Sealant Catalyst

**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)

**Emergency Contact Information :**  
See Below

<b>Specification: AMS3265 / FMS3055 PART B CATALYST CLASS B (CORROSION INHIBITING)</b>					
<b>NSN:</b>	8030-01-364-7364				
	CS5500 C.I. CL B2 PINT				

**Emergency Contact:**

CHEMTEL: WWW.CHEMTELINE.COM

Flamemaster Corporation Contract Number MIS2644301

Shipments of hazardous materials within United States, Canada, Puerto Rico, and U.S. Virgin Island should reference Chemtel's toll free phone number: 1-800-255-3924 - Reference Number MIS2644301

Shipments and safety applications outside of United States, Canada, Puerto Rico, and the U.S. Virgin Islands must reference Chemtel phone number +1-813-248-0585 - Reference Number MIS2644301

Collect Calls will be accepted. To ensure a bilingual operator please call collect.

Shipments originating in U.S.A. and going overseas must use both numbers.

Shipments originating overseas and destined for US, Canada, Puerto Rico or the Virgin Islands must also use both numbers.

Calls originating on board vessels should follow normal ship to shore protocols. Use international access number and alert the ship to shore operator you are involved in an emergency incident.

Shipments of hazardous materials within the listed countries should reference Chemtel's in-country phone numbers:

Australia : 1-300-954-583 : Reference Number MIS2644301

Brazil : 0-800-591-6042 : Reference Number MIS2644301

China : 400-120-0751 : Reference Number MIS2644301

India : 000-800-100-4086 : Reference Number MIS2644301

Mexico : 01-800-099-0731 : Reference Number MIS2644301

---

---

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

---

---

ASPIRATION HAZARD 1, H304  
ACUTE TOXICITY (ORAL) 4, H302  
ACUTE TOXICITY (INHALATION) 4, H332  
SKIN SENSITIZATION 1, H317  
CARCINOGENICITY 2, H351  
TOXIC TO REPRODUCTION (FERTILITY) 2, H361f  
REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION  
SKIN CORROSION / IRRITATION 2, H315  
SERIOUS EYE DAMAGE / EYE IRRITATION 2B, H318  
SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373  
AQUATIC CHRONIC 4, 413

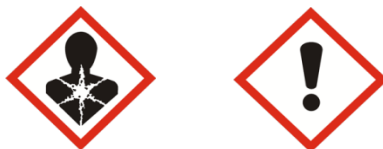
**OSHA / HCS STATUS :** THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Human and Environmental Hazards:

**HAZARD STATEMENTS:**

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304  
HARMFUL IF SWALLOWED - H302  
HARMFUL IF INHALED - H332  
MAY CAUSE AN ALLERGIC SKIN REACTION - H317  
SUSPECTED OF CAUSING CANCER - H351  
SUSPECTED OF DAMAGING FERTILITY - H361f  
MAY CAUSE HARM TO BREAST-FED CHILDREN - H362  
CAUSES SKIN IRRITATION - H315  
CAUSES SERIOUS EYE IRRITATION - H319  
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373  
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - H413

**HAZARD PICTOGRAMS:**



**SIGNAL WORD:**

**DANGER**

**GENERAL PRECAUTIONARY STATEMENTS:**

P101: If medical advice is needed, have product container or label at hand.  
P102: keep out of reach of children.  
P103: Read label before use.

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.

**SPECIFIC PRECAUTIONARY STATEMENTS ASSOCIATED WITH THIS PRODUCT:**

- 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 victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+351+338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do-continue rinsing.  
 P308+313: If exposed: Call a POISON CENTER or doctor / physician.  
 P312: Call a POISON CENTER / doctor /... / if you feel unwell.  
 P314: Get medical advise / attention 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.  
 P405: Store locked up.  
 P501: Dispose of contents / containers in accordance with local / regional / national / international regulations

**HAZARDS NOT OTHERWISE CLASSIFIED:** OXIDISING POTENTIAL: Contact with combustible material may result in fire. Keep away from combustible materials. This material increases the risk of fire and may aid in combustion. Sanding and grinding dust may be harmful if inhaled. Sanding and grinding dust may form combustible concentrations in air.

**Other Hazards that do not result in classification:**

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

---



---

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


---



---

**Chemical family :** Mixture of organic compounds

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

---

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

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.

<b>CHEMICAL NAME: ZEOLITES</b> NOT CLASSIFIED	CAS#1318-02-1	EC# 215-283-8	<15% by weight
<b>CHEMICAL NAME: TALC</b> NOT CLASSIFIED	CAS# 14807-96-6	EC# 238-877-9	<10% by weight
<b>CHEMICAL NAME: CARBON BLACK</b> NOT CLASSIFIED	CAS# 1333-86-4	EC# 215-609-9	<10% by weight
<b>CHEMICAL NAME: TERPHENYL</b> AQUATIC ACUTE (CATEGORY 1) - H400 AQUATIC CHRONIC (CATEGORY 1) - H410	CAS# 26140-60-3	EC# 247-477-3	<10% by weight
<b>CHEMICAL NAME: 1,3 DIPHENYLGUANIDINE</b> ACUTE TOXICITY (CATEGORY 4) - H302 SKIN IRRITATION (CATEGORY 2) - H315 EYE IRRITATION (CATEGORY 2) - H319 REPRODUCTIVE (CATEGORY 2) - H361f (FERTILITY) STOT-SINGLE EXPOSURE (CATEGORY 3) - H335 AQUATIC CHRONIC (CATEGORY 2) - H411	CAS# 102-06-7	EC# 203-002-1	<3% by weight
<b>CHEMICAL NAME: BIS(PIPERIDINOTHIOCARBONYL) TETRASULFIDE</b> SKIN SENSITIVITY (CATEGORY 1) - H317	CAS# 120-54-7	EC# 204-406-0	<3% by weight
<b>CHEMICAL NAME: POLYPHENYL, QUATER AND HIGHER</b>	CAS# 68956-74-1		<10% by weight
<b>MAGNESIUM CARBONATE</b>	CAS# 546-93-0		<10% by weight
<b>CHEMICAL NAME: SODIUM MOLYBDATE ANHYDROUS</b> ACUTE TOXICITY - INHALATION (CATEGORY 4) , H332	CAS# 7631-95-0		< 20% by Weight
<b>CHEMICAL NAME : AMMONIUM MOLYBDATE TETRAHYDRATE</b> SERIOUS EYE DAMAGE / EYE IRRITATION 2B, H318 SKIN CORROSION / IRRITATION 2, H315	CAS# 12054-85-2		<20% by Weight

**Sodium Hydroxide may be present in Reportable Quantity as an impurity. Cas# 1310-73-2 % Range .6% - 1.9%**

---



---

#### **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:** 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.



---

---

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

---

---

**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.

Emits toxic fumes when heated.

**Hazardous decomposition products include but are not limited to:** Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Sulfur Oxides, Metal Oxide / Oxides, Manganese Compounds, Smoke

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.

---

---

**Section -6. ACCIDENTAL RELEASE MEASURES**

---

---

Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean-up with a detergent/ water mix ; avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

---

---

**Section -7. HANDLING AND STORAGE**

---

---

**7.1 Handling:**

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy / while nursing.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

**7.2 Storage:**

Observe label precautions. Store between 32/F and 95/F ( 0/C and 35/C ) in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

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.

---

---

**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**

---

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

Substance	ACGIH TLV
Manganese Dioxide	TWA: 0.1mg/m <sup>3</sup> (as Mn) 8 hours (Inhalable Fraction)
	TWA: 0.02mg/m <sup>3</sup> (as Mn) 8 hours (Respirable Fraction)
Terphenyl, Hydrogenated	TWA: 4.9 mg/m <sup>3</sup> 8 hours
	TWA: 0.5 ppm 8 hours
Zeolites	TWA: 1mg/m <sup>3</sup> 8 hours (Respirable Fraction)
Talc	TWA: 2mg/m <sup>3</sup> 8 hours (Respirable Fraction)
Carbon Black	TWA: 3mg/m <sup>3</sup> 8 hours ( Inhalable Fraction)
Terphenyl	C: 5mg/m <sup>3</sup>
	C: 0.53 ppm
MAGNESIUM CARBONATE	TWA: 5mg/m <sup>3</sup> (Respirable Fraction)
	TWA: 15 mg/m <sup>3</sup> 8 hours (Total Dust)
SODIUM MOLYBDATE	TWA: 5mg (Mo)/m <sup>3</sup>
	OSHA PEL TWA: 5mg (Mo)/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.

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.

---

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

---

- Physical state at: 68 ° F (20 ° C) Liquid
- Flash point: 200 ° F (93 ° C) Method: TCC
- Color: BLACK
- Appearance: PASTE
- Odor: NEGLIGIBLE OILY ODOR
- Upper Explosive Limit '(% vol.): N/A
- Miscibility in water at 20 ° C: NEGLIGIBLE
- Material Supports Combustion. : Yes
- 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 Available 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

---

---

## 10. STABILITY AND REACTIVITY

---

---

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

Emits toxic fumes when heated.

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

- Carbon monoxide
- Sulfur oxides
- Carbon Dioxide
- Oxides of nitrogen
- Metal Oxide / Oxides
- Manganese Compounds
- Smoke

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.

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

---

---

## 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

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.

**ACUTE TOXICITY:**

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
Manganese Dioxide	LD50 ORAL	Rat	3478 mg/kg	-
Terphenyl,Hydrogenated	LD50 ORAL	Rat	17500 mg/kg	-
Zeolites	LD50 ORAL	Rat	>5 g/kg	-
Carbon Black	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400 mg/kg	-
Terphenyl	LD50 Oral	Rat	>1400 mg/kg	-
Magnesium Carbonate	LD50 Oral	Rat	8000 mg/kg	-
1, 3-Diphenylguanidine	LD50 Oral	Rat	323 mg/kg	-
SODIUM MOLYBDATE	LD50 ORAL	Rat	4233 mg/kg	-
	LC50 IPR	Rat	520 mg/kg	-
AMMONIUM MOLYBDATE TETRAHYDRATE	LD50 ORAL	Rat	333 mg/kg	-

**CARCINOGENICITY:**

INGREDIENT	IARC	OSHA	NTP
Zeolites	3	-	-
Carbon Black, Respirable Powder	2B	-	-

**Specific Target Organ Toxicity (STOT)- Single Exposure**

1,3-Diphenylguanidine - (Category 3)

Zeolites - (Category 3)

Talc - (Category 3)

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.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Manganese Dioxide - (Category 2)

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

May cause damage to organs through prolonged or repeated exposure. May lead to defatting of the skin and / or irritation.

May lead to allergic reactions.

Suspected of causing cancer.

Suspected of damaging fertility

**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

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.

---

---

**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.

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:**

Product	LogPow	BCF	Potential
1,3 Diphenylguanidine	1.69	19.95	Low
Bis(piperidinothiocarbonyl) tetrasulfide	2.8	16.98	Low

**Mobility in Soil:**

Not Available

---

---

**13. DISPOSAL CONSIDERATIONS**

---

---

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.

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.

---

---

**14. TRANSPORT INFORMATION**

---

---

**DOT:** Not regulated

**UN Number:** Not regulated

**IATA:** Not regulated

**IMDG/IMO:** Not regulated

**NMFC:** 4620 SUB.5 – CL.60

**Schedule B #** 3506.91.0000

---

---

**15. REGULATORY INFORMATION**

---

---

**Other EU Regulations:**

1,3-Diphenylguanidine - Reproductive (Category 2) H361f (Fertility)

**SARA 311/312**

Classification: Immediate (acute) health hazard

Delayed (chronic) health hazard

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.

### Composition of Ingredients :

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

Zeolites : Immediate (acute) health hazard

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

Talc : Immediate (acute) health hazard

Carbon Black : Fire Hazard  
Delayed (chronic) health hazard

Terphenyl : Immediate (acute) health hazard

1,3-Diphenylguanidine : Fire Hazard  
Immediate (acute) health hazard  
Delayed (chronic) health hazard

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

### 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 (Reprting Value)
	Manganese Dioxide	1313-13-9	<65%	Unknown

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

### US Regulations State

California Proposition 65 (Developmental – Female)	<b>MANGANESE DIOXIDE</b>	1313-13-9	< 65%	>= 1.0%
Massachusetts	<b>MANGANESE DIOXIDE</b>	1313-13-9	< 65%	>= 1.0%
New Jersey	<b>MANGANESE DIOXIDE</b>	1313-13-9	< 65%	>= 1.0%
Pennsylvania	<b>MANGANESE DIOXIDE</b>	1313-13-9	<65%	>= 1.0%
Rhode Island	<b>MANGANESE DIOXIDE</b>	1313-13-9	<65%	>= 1.0%
Massachusetts	<b>Sodium Hydroxide</b>	1310-73-2	.6%- 1.9%	>= 1.0%
New Jersey	<b>Sodium Hydroxide</b>	1310-73-2	.6%- 1.9%	>= 1.0%
Pennsylvania	<b>Sodium Hydroxide</b>	1310-73-2	.6%- 1.9%	>= 1.0%

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.

**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.

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):Manganese Dioxide cas#1313-13-9

HEALTH	3	HEALTH	3	Customer and / or end user is responsible for determining PPE.
FLAMMABILITY	1	FLAMMABILITY	1	
REACTIVITY	1	REACTIVITY	1	

**NFPA**

**HMIS**

---

---

**Section 16 Other Information**

---

---

Preparer-Flamemaster/Compliance                      Revision Date 10/28/2019      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