



**FLAMEMASTER**

**Flamemaster Corp.**

**13576 Desmond Street**

**Pacoima, CA 91331 - USA**

**SAFETY DATA SHEET**

**FEBRUARY 2017**

**File: CS3247A GSA 7-10**

**Aircraft Windshield Sealant  
Base/Compound**

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

- 1.1. Product Identifier: CS-3247 Part A Class B (All)
- Product Name: Aircraft Windshield Sealant / Base compound Part-A
- Product reference: CS-3247 PT A BASE Compound

- 1.2. Product Use:**
- Aircraft Windshield Sealant

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

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

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

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

**Specification :**                      **IAW AMS 3333A TYPE 2**                      **Base PT A**                      **CLASS B ALL**

<b>NSN:</b>	<b>NONE ISSUED FOR THIS PRODUCT</b>
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## Section -2. HAZARD ( S ) IDENTIFICATION

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

### CLASSIFICATION OF THE MIXTURE:

ASPIRATION HAZARD - CATEGORY 1

SKIN SENSITIZATION - CATEGORY 1

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION (UNBORN CHILD) - Category 2

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

ACUTE TOXICITY (INHALATION) - CATEGORY 4

ACUTE TOXICITY,ORAL - CATEGORY 4

ACUTE TOXICITY (DERMAL) - CATEGORY 4

AQUATIC (CHRONIC) - CATEGORY 4

### GHS LABEL REQUIREMENTS

#### HAZARD PICTOGRAMS



#### SIGNAL WORD : DANGER

#### HAZARD STATEMENTS:

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304

MAY CAUSE AN ALLERGIC SKIN REACTION - H317

CAUSES SERIOUS EYE IRRITATION - (H319)

CAUSES SKIN IRRITATION - (H315)

SUSPECTED OF DAMAGING THE UNBORN CHILD - (H361d)

SUSPECTED OF CAUSING CANCER - (H351)

MAY CAUSE DROWSINESS OR DIZZINESS - H336

HARMFUL IF SWALLOWED - H302

HARMFUL IN CONTACT WITH SKIN - H312

HARMFUL IF INHALED - H332

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.

Continued on Next Page

- 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.

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

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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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**GHS CLASSIFICATION:LIQUID POLYMER - NOT CLASSIFIED**

**GHS CLASSIFICATION:LIQUID POLYMER - NOT CLASSIFIED**

#### **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 - NOT CLASSIFIED

#### **CARBON BLACK**

MAY FORM COMBUSTIBLE DUST CONCENTRATIONS IN AIR

**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

SUBSTANCE % by weight in the product	H&P STATEMENTS	CAS	EINECS/ELINCS
LIQUID POLYMER < 70%	NOT CLASSIFIED	N/A	POLYMER
LIQUID POLYMER < 70%	NOT CLASSIFIED	N/A	POLYMER
TOLUENE (Methylbenzene) < 5%	H225,H304,H315,H319,H332,H336, H361,H371,H401, P210P260,P281,P301+P310,P305+ P351+ P338,P331	108-88-3	203-625-9
CARBON BLACK <5%	May form combustible dust concentrations in air	1333-86-4	N/A
Calcium Carbonate <45%	NOT CLASSIFIED	72608-12-9	207-439-9
Bisphenol A- Epoxy Resin with Toluene <3%	H225, H319, H315, H317, H361d, H336, H400, H412	N/A	N/A

**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.

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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**

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

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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**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.

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.

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**Section -7. HANDLING AND STORAGE**

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**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.

Continued on Next Page

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	Not known	Not known
LIQUID POLYMER	Not known	Not known
TOLUENE (Methylbenzene)*	200 ppm	20 ppm
CALCIUM CARBONATE *	5 mg/m <sup>3</sup> ( RESPIRABLE FRACTION)	3 mg/m <sup>3</sup> (RESPIRABLE FRACTION)
CALCIUM CARBONATE *	15mg/m <sup>3</sup> (TOTAL DUST)	10 mg/m <sup>3</sup> (TOTAL DUST)
CARBON BLACK *	3.5 mg/m <sup>3</sup>	3.0 mg/m <sup>3</sup>
* 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.

Continued on Next Page

**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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| <ul style="list-style-type: none"> <li>• Physical state at: 68 ° F (20 ° C) Liquid</li> <li>• Flash point: 200 ° F (93 ° C) Method: TCC</li> <li>• Specific gravity at: 68 ° F (20 ° C) 1.52 g/cm<sup>3</sup></li> <li>• Vapor Density: NIL</li> <li>• Lower Explosive Limit (% vol.): N/A</li> <li>• Upper Explosive Limit (% vol.): N/A</li> <li>• Miscibility in water at 20 ° C: NEGLIGIBLE</li> </ul> | <ul style="list-style-type: none"> <li>• Ph : 8.5</li> <li>• Volatile by Volume % : 3.0</li> <li>• Vapor pressure at: 68 ° F (20 ° C) NIL</li> <li>• Color: Off white to white</li> <li>• Appearance: Paste</li> <li>• Odor: Polysulfide Odor</li> <li>• Boiling Point: N/A</li> </ul> |
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**10. STABILITY AND REACTIVITY**


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Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products including but not limited to the following:

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| <ul style="list-style-type: none"> <li>• Carbon Monoxide</li> <li>• Sulfur Oxides</li> <li>• Carbon Dioxide</li> <li>• Formaldehyde</li> <li>• Toxic Fumes</li> <li>• Smoke</li> </ul> | <ul style="list-style-type: none"> <li>• Halogenated Compounds</li> <li>• Oxides of Carbon, Nitrogen, Sulfur Dioxide, Trace Hydrogen Sulfide</li> <li>• Metal Oxide / Oxides</li> <li>• Smoke</li> <li>• Organic Compounds</li> <li>• Other hazardous compounds</li> </ul> |
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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 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.

Emits toxic fumes when heated.

**ACUTE TOXICITY:**

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
Calcium Carbonate	LD50 ORAL	Rat	6450 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 Hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 Hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 ORAL	Rat	636 mg/kg	-
Bisphenol A- Epoxy Resin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 ORAL	Rat	>2000 mg/kg	-
Carbon Black	LD50 Oral	Rat	>8000 mg/kg	-

**CARCINOGENICITY:**

INGREDIENT	IARC	OSHA	NTP	CAS#
TOLUENE :	3	-	-	108-88-3
Carbon Black	2B	-	-	1333-86-4

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

TOLUENE - CATEGORY 3

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

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

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304

MAY CAUSE AN ALLERGIC SKIN REACTION - H317

CAUSES SERIOUS EYE IRRITATION - (H319)

CAUSES SKIN IRRITATION - (H315)

SUSPECTED OF DAMAGING THE UNBORN CHILD - (H361d)

SUSPECTED OF CAUSING CANCER - (H351)

MAY CAUSE DROWSINESS OR DIZZINESS - H336

HARMFUL IF SWALLOWED - H302

HARMFUL IN CONTACT WITH SKIN - H312

HARMFUL IF INHALED - H332



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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)

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.

**Toxicity :**

Product / Ingredient	Result	Species	Exposure
Carbon Black	LC50 >1000 mg/L	Brachydanio Rerio	96 Hours
	EC50 >5600 mg/L	Daphnia Magna	24 Hours
	EC50 >10000 mg/L	Algae	72 Hours
	NOEC >=10000 mg/L	Algae	-
	EC0 >=800 mg/L	Activated Sludge	3 Hours

**Persistence and Degradability :**

Product / Ingredient	Aquatic Half Life	Photolysis	Biodegradability
Toluene	-	-	Readily (5 days - 81 %)
bisphenol A - epoxy resins	-	-	Not Readily Biodegradeable (28 days - 5%)

**Bioaccumulative Potential :**

Product / Ingredient	LogP(ow)	BCF	Potential
Toluene	2.73	8.32	low
bisphenol A - epoxy resins	-	31	low

**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 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.

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**14. TRANSPORT INFORMATION**

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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

### 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)
	TOLUENE (Methylbenzene)	108-88-3	<5%	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>TOLUENE</b>	108-88-3	<5%	>= 1.0%
Massachusetts	<b>TOLUENE</b>	108-88-3	<5%	>= 1.0%
New Jersey	<b>TOLUENE</b>	108-88-3	<5%	>= 1.0%
Pennsylvania	<b>TOLUENE</b>	108-88-3	<5%	>= 1.0%
Rhode Island	<b>TOLUENE</b>	108-88-3	<5%	>= 1.0%
California Proposition 65 (Developmental – Female)	Carbon Black	1333-86-4	<5%	>=1.0%
Massachusetts	Carbon Black	1333-86-4	<5%	>= 1.0%
New Jersey	Carbon Black	1333-86-4	<5%	>= 1.0%
Pennsylvania	Carbon Black	1333-86-4	<5%	>= 1.0%

**Toluene:** Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

**Bisphenol A -Epoxy Resins with Toluene:** Fire Hazard, Immediate (Acute ) Health Hazard, Delayed (Chronic) Health hazard

**Carbon Black:** Chronic Health Hazard, Fire Hazard

**Sudden Release Of Pressure:** No Products

**Reactivity:** No Products

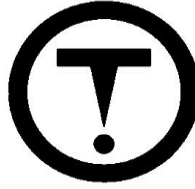
#### California Prop. 65 : Warning

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 D2B  
TOLUENE CAS# 108-88-3  
Carbon Black CAS# 1333-86-4  
Calcium Carbonate CAS# 72608-12-9  
Bisphenol A -Epoxy Resins Cas#6794-34-9

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):  
Bisphenol A -Epoxy Resins Cas# 67924-34-9  
Toluene Cas# 108-88-3

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**16. OTHER INFORMATION**

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HEALTH	1	
FLAMMABILITY	1	Customer and / or end user is responsible
REACTIVITY	0	for determining PPE.

**HMIS**

Preparer:	Flamemaster / Compliance Rev-A 4/02/2015 Supersedes (conversion)	Revision Notes: A	Conversion to ANSI format
Containers:	plastic jars, metal cans cartridge kits		
Limited Quantity	See SDS Section 14		
Maximum container size	50 Gallons / 190 Liters		

**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-3247 Part B Class B (all application times)  
 - Product Name: Aircraft Windshield Sealant / Catalyst Part B  
 - Product reference: CS-3247-B

1.2. Product Use:  
 -Aircraft Windshield 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: IAW AMS 3333A                      Catalyst Part B                      CLASS B (ALL)**

<b>NSN:</b>	<b>NONE ISSUED FOR THIS PRODUCT</b>
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## Section -2. HAZARD ( S ) IDENTIFICATION

ASPIRATION HAZARD 1, H304  
ACUTE TOXICITY (ORAL) 4, H302  
ACUTE TOXICITY (INHALATION) 4, H332  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2  
SKIN CORROSION/IRRITATION - Category 2  
SKIN SENSITIZATION 1, H317  
CARCINOGENICITY 2, H351  
TOXIC TO REPRODUCTION (FERTILITY) 2, H361f  
SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373  
AQUATIC CHRONIC 4, 413  
**For A Complete List of H-Statements and Classifications See Section 16**

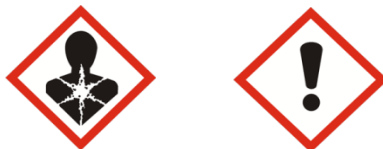
**OSHA / HCS STATUS :** THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Human and Environmental Hazards:

### HAZARD STATEMENTS:

May Be Fatal If Swallowed and Enters Airways.  
Harmful by Inhalation and / or Swallowing  
Causes Serious Eye Irritation  
Causes Skin Irritation  
May Cause An Allergic Skin Reaction  
Suspected of Causing Cancer  
Suspected of Damaging Fertility  
May Cause Damage to Organs Through Prolonged or Repeated Exposure  
May Cause Long Lasting Harmful Effects to Aquatic Life

### HAZARD PICTOGRAMS:



### SIGNAL WORD:

### DANGER

Full text of P statements associated to this compound:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- 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.

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- P302+P352: If on skin: Wash with plenty of soap and water
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

**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.

**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> 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	CAS# 1313-13-9	EC# 215-202-6	<65% by weight
<b>CHEMICAL NAME: TERPHENYL, HYDROGENATED</b> AQUATIC CHRONIC (CATEGORY 4) - H413	CAS# 61788-32-7	EC# 262-967-7	<50% by weight
<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

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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.

**Hazardous decomposition products include:** Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Sulfur Oxides  
Metal Oxide / Oxides, Manganese Compounds, Smoke, Other Toxic / Noxious Fumes

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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.

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.

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## 7.2 Storage:

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

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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.

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### 8.2 Exposure limits

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#### 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)

### 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

- Physical state at: 68 ° F (20 ° C) Liquid
- Flash point: 200 ° F (93 ° C) Method: TCC
- Specific gravity at: 68 ° F (20 ° C) 2.0
- Vapor Density: N/A
- Lower Explosive Limit (% vol.): N/A
- Upper Explosive Limit (% vol.): N/A
- Miscibility in water at 20 ° C: NEGLIGIBLE
- Material Supports Combustion. : Yes
- Ph : 9.0
- % VOLATILE BY VOLUME - 2.0
- Vapor pressure at: 68 ° F (20 ° C) N/A
- Color: BLACK
- Appearance: PASTE
- Odor: NEGLIGIBLE OILY ODOR
- Boiling Point: 360° C (680° F)

## 10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products such as :

- Carbon monoxide
- Sulfur oxides
- Carbon Dioxide
- Oxides of nitrogen
- Metal Oxide / Oxides
- Manganese Compounds
- Smoke
- Toxic Fumes / Noxious fumes

## 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

### 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	>15400mg/kg	-
Terphenyl	LD50 Oral	Rat	>1400 mg/kg	-
Magnesium Carbonate	LD50 Oral	Rat	8000mg/kg	-
1, 3-Diphenylguanidine	LD50 Oral	Rat	323mg/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)

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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

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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.

**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

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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  
**IATA:** Not regulated  
**IMDG/IMO:** Not regulated  
**NMFC:** 4620 SUB.5 – CL.60  
**Schedule B #** 3506.91.0000

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**15. REGULATORY INFORMATION**

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**Other EU Regulations:**

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

**SARA 311/312**

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

**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.

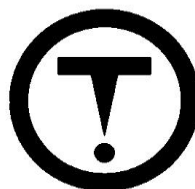
All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

**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%

**California Prop 65 Warning :**

This Product contains one or more ingredients known by the state of California to cause cancer.



materials Division 2: Materials Causing Other Toxic Effects:  
Manganese Dioxide CAS#1313-13-9

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):Manganese Dioxide cas#1313-13-9

HEALTH 3  
FLAMMABILITY 1  
REACTIVITY 1

HEALTH 3  
FLAMMABILITY 1  
REACTIVITY 1

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

**NFPA**

**HMIS**

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**Section 16 Other Information**

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**Full Text of H Statements Associated with this Compound:**

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  
SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373  
AQUATIC CHRONIC 4, H413

H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

H302 - HARMFUL IF SWALLOWED.

H332 - HARMFUL IF INHALED.

H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.

H351 - SUSPECTED OF CAUSING CANCER.

H361f - SUSPECTED OF DAMAGING FERTILITY.

H373 - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

H413 - MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE.

Preparer-Flamemaster/Compliance  
Rev A April 2015  
Supercedes(Conversion)

Revision Notes: A

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