



**13576 Desmond Street  
Pacoima, CA 91331 - USA**

**SAFETY DATA SHEET  
AUGUST 21, 2019**

**File: CS3204BB GSA 07-10  
INTEGRAL FUEL TANK  
SEALANT CATALYST**

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

1.1. Product Identifier: CS-3204 Part B Class B (all application times)

- Product Name: Integral Fuel Tank Sealant / Catalyst Part B

- Product reference: CS-3204-B

**1.2. Product Use:**

-Integral Fuel Tank Sealant

**1.3. Manufacturer's Name:**

**CAGE Code: 14439**

**Flamemaster Corp.**

**Chem Seal Division**

**13576 Desmond Street**

**Pacoima, CA 91333 – USA**

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

**Technical Contact:**

**Flamemaster Corp.**

Tel: 818-890-1401

Fax: 818-890-6001

[www.flamemaster.com](http://www.flamemaster.com)

**Emergency Contact Information :**

**See Below**

	<b>Specification: AMS-S-8802</b>	<b>Catalyst Part B</b>	<b>CLASS B</b>	<b>ALL</b>	
<b>NSN:</b>	8030-00-753-5007 CS3204B1/2 2.5 OZ	8030-00-753-5004 CS3204B1/2 6OZ	8030-00-753-4597 CS3204B1/2 1/2 PINT	8030-00-174-2599 CS3204B1/2 PINT	8030-00-080-1549 CS3204B1/2 QUART
	8030-01-476-2255 CS3204B1/2 QUART	8030-00-841-6831 CS3204B1/2 GALLON	8030-00-964-1892 CS3204B1/2 5-GAL	8030-01-337-9408 CS3204B-1 2.5OZ	8030-01-376-8504 CS3204B-1 GALLON
	8030-00-753-5006 CS3204B-2 2.5 OZ	8030-00-753-5005 CS3204B-2 6 OZ	8030-00-753-4599 CS3204B-2 1/2 PINT	8030-00-723-2746 CS3204B-2 PINT	8030-00-262-9041 CS3204B-2 QUART
	8030-00-579-8453 CS3204B-2 GALLON	8030-00-878-8428 CS3204B-2 5-GAL	8030-00-850-0759 CS3204B-4 2.5 OZ	8030-00-850-0758 CS3204B-4 6OZ	8030-00-152-0013 CS3204B-2 6OZ(4.5)
	8030-00-932-1990 CS3204B-4 1/2 PINT	8030-00-174-2598 CS3204B-4 PINT	8030-00-850-5717 CS3204B-4 QUART	8030-00-602-0035 CS3204B-6	8030-00-685-0915 CS 3204 B2 QUART
	8030-01-527-6518 CS3204 4.5OZ. IN 6OZ.	8030-00-432-9544 CS3204 B2 50 GAL			

**Emergency Contact:**

CHEMTEL: [WWW.CHEMTELINE.COM](http://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

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**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  
SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2, H319  
SKIN CORROSION/IRRITATION - Category 2, H315  
REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION, H362  
AQUATIC (CHRONIC) - CATEGORY 4, H413

**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  
Irritating to Eyes and Skin  
May Cause An Allergic Skin Reaction  
Suspected of Causing Cancer  
Suspected of Damaging Fertility  
May Cause Damage to Organs Through Prolonged or Repeated Exposure  
CAUSES SERIOUS EYE IRRITATION  
CAUSES SKIN IRRITATION  
MAY CAUSE HARM TO BREAST-FED CHILDREN  
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE

**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.

**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 / ...
- 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
- 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.

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

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<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

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

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

**General:** When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

**Eye contact:** 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**

##### **Extinguishing agents**

**Recommended:** Universal resistant foam, CO2, 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.

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

**Hazardous decomposition products include:** Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Sulfur Oxides Metal Oxide / Oxides, Manganese Compounds, 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.

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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.

**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)
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)

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### 8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

#### Respiratory protection :

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

#### Hand protection :

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

#### Eye protection :

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

#### Skin protection :

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- Physical state at: 68 ° F (20 ° C) Liquid
- Flash point: 200 ° F (93 ° C) Method: TCC
- 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)

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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 such as :

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

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## 11. TOXICOLOGICAL INFORMATION

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There are no data available on the preparation itself. See (SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health

#### ACUTE TOXICITY:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
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	-

Continued On Next Page

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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)

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

Manganese Dioxide - (Category 2)

**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

**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.

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**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

**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

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

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**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%

**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**

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**Section 16 Other Information**

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Preparer-Flamemaster/Compliance                      Revision Date: 08/21/2019      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**



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

**SAFETY DATA SHEET**  
**AUGUST 20, 2019**

**File: CS3204AB GSA 7-10**  
**INTEGRAL FUEL TANK SEALANT**  
**BASE COMPOUND**

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

1.1. Product Identifier: CS-3204 PART A CLASS B (TYPE 2) All Application Times

- Product Name: Integral Fuel Tank Sealant / Base compound Part-A

- Product reference: CS-3204 PT A CLASS B BASE COMPOUND

**1.2. Product Use:**

-Integral Fuel Tank Sealant

**1.3. Manufacturer's Name:**

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

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

**Technical Contact:**

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

**Emergency Contact Information :**

See Below

Specification:	AMS-S-8802	Base PT A	CLASS B	ALL	
<b>NSN:</b>	8030-00-753-5007 CS3204B1/2 2.5 OZ	8030-00-753-5004 CS3204B1/2 6OZ	8030-00-753-4597 CS3204B1/2 1/2 PINT	8030-00-174-2599 CS3204B1/2 PINT	8030-00-080-1549 CS3204B1/2 QUART
	8030-01-476-2255 CS3204B1/2 QUART	8030-00-841-6831 CS3204B1/2 GALLON	8030-00-964-1892 CS3204B1/2 5-GAL	8030-01-337-9408 CS3204B-1 2.5OZ	8030-01-376-8504 CS3204B-1 GALLON
	8030-00-753-5006 CS3204B-2 2.5 OZ	8030-00-753-5005 CS3204B-2 6 OZ	8030-00-753-4599 CS3204B-2 1/2 PINT	8030-00-723-2746 CS3204B-2 PINT	8030-00-262-9041 CS3204B-2 QUART
	8030-00-579-8453 CS3204B-2 GALLON	8030-00-878-8428 CS3204B-2 5-GAL	8030-00-850-0759 CS3204B-4 2.5 OZ	8030-00-850-0758 CS3204B-4 6OZ	8030-00-152-0013 CS3204B-2 6OZ(4.5)
	8030-00-932-1990 CS3204B-4 1/2 PINT	8030-00-174-2598 CS3204B-4 PINT	8030-00-850-5717 CS3204B-4 QUART	8030-00-602-0035 CS3204B-6	8030-00-685-0915 CS 3204 B2 QUART
	8030-01-527-6518 CS3204 4.5OZ. IN 6OZ.	8030-00-432-9544 CS3204 B2 50 GAL			

**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

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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 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  
AQUATIC (ACUTE) - CATEGORY 3  
AQUATIC (CHRONIC) - CATEGORY 3

**GHS LABEL REQUIREMENTS****HAZARD PICTOGRAMS**

**SIGNAL WORD : DANGER**

**HAZARD STATEMENTS:**

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304  
CAUSES SERIOUS EYE IRRITATION - (H319)  
CAUSES SKIN IRRITATION - (H315)  
SUSPECTED OF DAMAGING THE UNBORN CHILD - (H361d)  
SUSPECTED OF CAUSING CANCER - (H351)  
MAY CAUSE HARM TO BREAST-FED CHILDREN - H362  
HARMFUL TO AQUATIC LIFE  
HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS - H412

**GENERAL PRECAUTIONARY STATEMENTS:**

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

## 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.  
P263: Avoid contact during pregnancy / while nursing.  
P264: Wash thoroughly after handling.  
P270: Do not eat, drink, or smoke when using this product.  
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 / ...  
P302+352: IF ON SKIN: Wash with plenty of water / ...  
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.  
P321: Specific treatment...See Label Information  
P331: Do NOT induce vomiting.  
P332+313: If skin irritation occurs: Get medical advice / attention.  
P337+313: If eye irritation persists: Get medical advice / attention.  
P362: Take off all contaminated clothing.  
P391: Collect spillage.  
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.

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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 IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): LIQUID POLYMER	CAS# N/A	WT% <70%
Not Classified		

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): LIQUID POLYMER	CAS# N/A	WT% <7%
Not Classified		

**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): TOLUENE** CAS# 108-88-3 WT% <3%  
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

**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): CALCIUM CARBONATE** CAS# 471-34-1 WT% <45%  
GHS CLASSIFICATION: CALCIUM CARBONATE  
EYE DAMAGE (CATEGORY 1)  
SKIN IRRITATION (CATEGORY 2)  
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3)

**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): TITANIUM DIOXIDE** CAS# 13463-67-7 WT% <10%  
OSHA HAZARDS: CARCINOGEN  
GHS CLASSIFICATION: TITANIUM DIOXIDE  
SKIN IRRITATION: (CATEGORY 3)  
CARCINOGENICITY (CATEGORY 2)

**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): Phenol Polymer with Toluene** WT% <3%  
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  
**Phenol Polymer - CAS# 67924-34-9**  
**Toluene - CAS# 108-88-3**

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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:** 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
- 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.

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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).

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

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

Empty containers and/or liners may contain material residue. Empty contaminated packaging thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

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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.

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****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)
TITANIUM DIOXIDE *	15mg/m <sup>3</sup> (TOTAL DUST)	10 mg/m <sup>3</sup> (TOTAL DUST)
* 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- Physical state at: 68 ° F (20 ° C) Liquid
- Flash point: 200 ° F (93 ° C) Method: TCC
- Appearance: PASTE
- Color: White
- 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

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## 10. STABILITY AND REACTIVITY

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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.

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



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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.

**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	-
Titanium Dioxide	LD50 ORAL	Rat	>10g/kg	-
Phenol Polymer	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 ORAL	Rat	>2000 mg/kg	-

May cause damage to organs through prolonged or repeated exposure.

Suspected of causing cancer. Risk depends on level and duration of exposure.

Suspected of damaging the unborn child.

**CARCINOGENICITY:**

INGREDIENT	IARC	OSHA	NTP	CAS#
TOLUENE :	3	-	-	108-88-3
TITANIUM DIOXIDE :	2B	-	-	13463-67-7

**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

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**12. ECOLOGICAL INFORMATION**

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There is no data available on the preparation itself. See (SDS Sections 3 and 15)

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

Empty containers and/or liners may contain material residue. Empty contaminated packaging thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations.

**Toxicity :**

Product / Ingredient	Result	Species	Exposure
Titanium Dioxide	Acute LC50>100mg/l Fresh Water	Daphnia	48 Hours

**Persistence and Degradability :**

Product / Ingredient	Aquatic Half Life	Photolysis	Biodegradability
Toluene	-	-	Readily (5 days - 81 %)
Phenol Polymer	-	-	Not Readily Biodegradable (28 days - 5%)

**Bioaccumulative Potential :**

Product / Ingredient	LogP(ow)	BCF	Potential
Toluene	2.73	8.32	low
Phenol Polymer	-	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 packaging 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	<3%	Unknown
	Calcium Carbonate	471-34-1	<45%	Unknown
	Titanium Dioxide	*13463-67-7 (DELETED CAS# 98084-96-9)	< 10%	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	<3%	>= 1.0%
Massachusetts	<b>TOLUENE</b>	108-88-3	<3%	>= 1.0%
New Jersey	<b>TOLUENE</b>	108-88-3	<3%	>= 1.0%
Pennsylvania	<b>TOLUENE</b>	108-88-3	<3%	>= 1.0%
Rhode Island	<b>TOLUENE</b>	108-88-3	<3%	>= 1.0%
California Proposition 65 (Developmental – Female)	Calcium Carbonate	471-34-1	<45%	>= 1.0%
Massachusetts	Calcium Carbonate	471-34-1	<45%	>= 1.0%
New Jersey	Calcium Carbonate	471-34-1	<45%	>= 1.0%
Pennsylvania	Calcium Carbonate	471-34-1	<45%	>= 1.0%
Rhode Island	Calcium Carbonate	471-34-1	<45%	>= 1.0%
California Proposition 65 (Developmental – Female)	Titanium Dioxide	13463-67-7	<10%	>= 1.0%
Massachusetts	Titanium Dioxide	13463-67-7	<10%	>= 1.0%
New Jersey	Titanium Dioxide	13463-67-7	<10%	>= 1.0%
Pennsylvania	Titanium Dioxide	13463-67-7	>= 1.0%	>= 1.0%
Rhode Island	Titanium Dioxide	13463-67-7	<10%	>= 1.0%

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

**Titanium Dioxide:** Delayed (chronic) Health Hazard

**Sudden Release Of Pressure:** No Products

**Reactivity:** No Products

**California Prop. 65 : Warning**

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

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Listed National Pollutant Release Inventory (NPRI):TOLUENE CAS:108-88-3

Calcium Carbonate CAS#471-34-1

Liquid Polymer cas# N/A

Liquid Polymer cas# N/A

Titanium Dioxide CAS#13463-67-7

**OTHER CHEMICAL LISTING INFORMATION RELATED TO THIS PRODUCT:**

Australia (AICS) - All Components are Listed on Australian Inventory of Chemical Substances.

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**16. OTHER INFORMATION**

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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: 08/20/19

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**



**13576 Desmond Street  
Pacoima, CA 91331 - USA**

**SAFETY DATA SHEET  
AUGUST 21, 2019**

**File: CS3204BB GSA 07-10  
INTEGRAL FUEL TANK  
SEALANT CATALYST**

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

1.1. Product Identifier: CS-3204 Part B Class B (all application times)

- Product Name: Integral Fuel Tank Sealant / Catalyst Part B

- Product reference: CS-3204-B

**1.2. Product Use:**

-Integral Fuel Tank Sealant

**1.3. Manufacturer's Name:**

**CAGE Code: 14439**

**Flamemaster Corp.**

**Chem Seal Division**

**13576 Desmond Street**

**Pacoima, CA 91333 – USA**

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

**Technical Contact:**

**Flamemaster Corp.**

Tel: 818-890-1401

Fax: 818-890-6001

[www.flamemaster.com](http://www.flamemaster.com)

**Emergency Contact Information :**

**See Below**

	<b>Specification: AMS-S-8802</b>	<b>Catalyst Part B</b>	<b>CLASS B</b>	<b>ALL</b>	
<b>NSN:</b>	8030-00-753-5007 CS3204B1/2 2.5 OZ	8030-00-753-5004 CS3204B1/2 6OZ	8030-00-753-4597 CS3204B1/2 1/2 PINT	8030-00-174-2599 CS3204B1/2 PINT	8030-00-080-1549 CS3204B1/2 QUART
	8030-01-476-2255 CS3204B1/2 QUART	8030-00-841-6831 CS3204B1/2 GALLON	8030-00-964-1892 CS3204B1/2 5-GAL	8030-01-337-9408 CS3204B-1 2.5OZ	8030-01-376-8504 CS3204B-1 GALLON
	8030-00-753-5006 CS3204B-2 2.5 OZ	8030-00-753-5005 CS3204B-2 6 OZ	8030-00-753-4599 CS3204B-2 1/2 PINT	8030-00-723-2746 CS3204B-2 PINT	8030-00-262-9041 CS3204B-2 QUART
	8030-00-579-8453 CS3204B-2 GALLON	8030-00-878-8428 CS3204B-2 5-GAL	8030-00-850-0759 CS3204B-4 2.5 OZ	8030-00-850-0758 CS3204B-4 6OZ	8030-00-152-0013 CS3204B-2 6OZ(4.5)
	8030-00-932-1990 CS3204B-4 1/2 PINT	8030-00-174-2598 CS3204B-4 PINT	8030-00-850-5717 CS3204B-4 QUART	8030-00-602-0035 CS3204B-6	8030-00-685-0915 CS 3204 B2 QUART
	8030-01-527-6518 CS3204 4.5OZ. IN 6OZ.	8030-00-432-9544 CS3204 B2 50 GAL			

**Emergency Contact:**

CHEMTEL: [WWW.CHEMTELINE.COM](http://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

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**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  
SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2, H319  
SKIN CORROSION/IRRITATION - Category 2, H315  
REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION, H362  
AQUATIC (CHRONIC) - CATEGORY 4, H413

**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  
Irritating to Eyes and Skin  
May Cause An Allergic Skin Reaction  
Suspected of Causing Cancer  
Suspected of Damaging Fertility  
May Cause Damage to Organs Through Prolonged or Repeated Exposure  
CAUSES SERIOUS EYE IRRITATION  
CAUSES SKIN IRRITATION  
MAY CAUSE HARM TO BREAST-FED CHILDREN  
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE

**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.

**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 / ...
- 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
- 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.

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

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<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

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

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

**General:** When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

**Inhalation:** Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

**Eye contact:** 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**

##### **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.

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

**Hazardous decomposition products include:** Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Sulfur Oxides Metal Oxide / Oxides, Manganese Compounds, 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.

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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.

**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 )**

<b>Substance</b>	<b>ACGIH TLV</b>
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)
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)

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### 8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

#### Respiratory protection :

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

#### Hand protection :

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

#### Eye protection :

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

#### Skin protection :

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- Physical state at: 68 ° F (20 ° C) Liquid
- Flash point: 200 ° F (93 ° C) Method: TCC
- 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)

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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 such as :

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

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## 11. TOXICOLOGICAL INFORMATION

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There are no data available on the preparation itself. See (SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health

#### ACUTE TOXICITY:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
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	-

Continued On Next Page

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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)

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

Manganese Dioxide - (Category 2)

**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

**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.

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**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

**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

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

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

**US Regulations State**

California Proposition 65 (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%

**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**

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**Section 16 Other Information**

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Preparer-Flamemaster/Compliance                      Revision Date: 08/21/2019      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**