



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

**SAFETY DATA SHEET**  
**JANUARY 2017**

**File: CS3204WTB GSA 07-10**  
 Weld Through Sealant  
**CATALYST**

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

1.1. Product Identifier: CS-3204 Part B Class WT-20 (all application times)  
 - Product Name: Weld Through Sealant / Catalyst Part B  
 - Product reference: CS-3204-WT-20-B

1.2. Product Use:  
 -Weld Through 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: MIS-31868                      Catalyst Part B                      CLASS WT-20                      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

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

Irritating to Eyes and Skin

May Cause An Allergic Skin Reaction

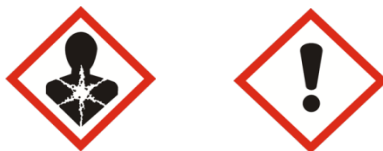
Suspected of Causing Cancer

Suspected of Damaging Fertility

May Cause Damage to Organs Through Prolonged or Repeated Exposure

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.
- 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.

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**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><br>OSHA HAZARDS: TARGET ORGAN EFFECT, TOXIC BY INHALATION<br>TARGET ORGANS: NERVES, LUNGS<br>GHS CLASSIFICATION:<br>ACUTE TOXICITY, ORAL (CATEGORY 4) - H302<br>ACUTE TOXICITY, INHALATION (CATEGORY 4) - H332   | CAS# 1313-13-9  | EC# 215-202-6 | <65% by weight |
| <b>CHEMICAL NAME: TERPHENYL, HYDROGENATED</b><br>AQUATIC CHRONIC (CATEGORY 4) - H413   | CAS# 61788-32-7 | EC# 262-967-7 | <50% by weight |
| <b>CHEMICAL NAME: ZEOLITES</b><br>NOT CLASSIFIED   | CAS# 1318-02-1  | EC# 215-283-8 | <15% by weight |
| <b>CHEMICAL NAME: TALC</b><br>NOT CLASSIFIED   | CAS# 14807-96-6 | EC# 238-877-9 | <10% by weight |
| <b>CHEMICAL NAME: CARBON BLACK</b><br>NOT CLASSIFIED   | CAS# 1333-86-4  | EC# 215-609-9 | <10% by weight |
| <b>CHEMICAL NAME: TERPHENYL</b><br>AQUATIC ACUTE (CATEGORY 1) - H400<br>AQUATIC CHRONIC (CATEGORY 1) - H410  | CAS# 26140-60-3 | EC# 247-477-3 | <10% by weight |
| <b>CHEMICAL NAME: 1,3-DIPHENYLGUANIDINE</b><br>ACUTE TOXICITY (CATEGORY 4) - H302<br>SKIN IRRITATION (CATEGORY 2) - H315<br>EYE IRRITATION (CATEGORY 2) - H319<br>REPRODUCTIVE (CATEGORY 2) - H361f (FERTILITY)<br>STOT-SINGLE EXPOSURE (CATEGORY 3) - H335<br>AQUATIC CHRONIC (CATEGORY 2) - H411 | CAS# 102-06-7   | EC# 203-002-1 | <3% by weight  |
| <b>CHEMICAL NAME: BIS(PIPERIDINOTHIOCARBONYL) TETRASULFIDE</b><br>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.

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

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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)            |
|                         |  |
| 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

## 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   | -    | -   |

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

1,3-Diphenylguanidine - (Category 3)

Zeolites - (Category 3)

Talc - (Category 3)

This Product is Harmful if Swallowed or Inhaled.

This Product also Causes Serious Eye Irritation.

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

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

Manganese Dioxide - (Category 2)

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

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

May lead to allergic reactions.

Suspected of causing cancer.

Suspected of damaging fertility

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

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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.

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.

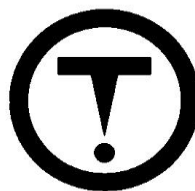
All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

**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:

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

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

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

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END OF SAFETY DATA SHEET

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