

13576 Desmond Street Pacoima, CA 91331 - USA

SAFETY DATA SHEET FEBRUARY 2016

File: CS3330C.I.AA GSA 7-10

Access Door Sealant/ Base

CORROSION INHIBITING

| Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION | | | | | | |
|---|---|--|--|--|--|--|
| 1.1. Product Identifier: CS-3330 C.I. PT A Class A BASE (ALL | 1.1. Product Identifier: CS-3330 C.I. PT A Class A BASE (ALL CLASSES) | | | | | |
| Product Name: Access Door Sealant / Base compound Part-A /CORROSION INHIBITOR | | | | | | |
| - Product reference: CS-3330 C.I. PT A Class A Base Compo | - Product reference: CS-3330 C.I. PT A Class A Base Compound | | | | | |
| 1.2. Product Use: | | | | | | |
| - Access Door Sealant / Base Compound/CORROSION INHI | BITOR | | | | | |
| 1.3. Manufacturer's Name: | 1.3.1 Suppliers Name (if not manufacturer) | | | | | |
| CAGE Code: 14439 | | | | | | |
| Flamemaster Corp. | | | | | | |
| Chem Seal Division | | | | | | |
| 13576 Desmond Street | | | | | | |
| Pacoima, CA 91333 – USA | | | | | | |
| Technical Contact: | 1.4. Emergency Telephone: | | | | | |
| Flamemaster Corp. | Chemtrec – Chemtrec International | | | | | |
| Tel: 818-890-1401 | 800-424-9300 (North America) | | | | | |
| Fax: 818-890-6001 | 703-527-3887 (Outside North America)) | | | | | |
| www.flamemaster.com | | | | | | |
| Specification: AMS 3284 / MIL-S-8784 | Base PT A CLA TYPE 2 ALL | | | | | |
| NSN: 8030-00-291-8380 8030-00-264-6583 | 8030-00-152-0062 8030-00-598-2090 | | | | | |
| CS3330C.I. A1/2 1/2 PT CS3330C.I. A1/2 PIN | T CS3330C.I. A-2 2.50Z CS3330C.I.A-2 PINT | | | | | |

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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 - CATEGORY 1 ACUTE TOXICITY,ORAL - CATEGORY 4 ACUTE TOXICITY (INHALATION) - CATEGORY 4 FLAMMABLE LIQUIDS - Category 2 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (UNBORN CHILD) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (STOT RE) (REPEATED EXPOSURE) - Category 2 AQUATIC CHRONIC - Category 4

GHS LABEL REQUIREMENTS HAZARD PICTOGRAMS



SIGNAL WORD : DANGER

HAZARD STATEMENTS:

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - (H304) HARMFUL BY INHALATION AND / OR SWALLOWING - (H302+H332) HIGHLY FLAMMABLE LIQUID AND VAPOR - (H225) SUSPECTED OF DAMAGING THE UNBORN CHILD - (H361d) SUSPECTED OF CAUSING CANCER - (H351) MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - (H373) MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - (H413)

PRECAUTIONARY STATEMENTS:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin (or in hair) : Wash with plenty of soap and water. If skin irritation occurs seek medical attention
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.

• P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

SUPPLEMENTAL LABEL ELEMENTS:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of concentrations above recommended limits causes headaches, drowsiness and nausea and could lead to unconsciousness or possibly death.

1-component mixtures: formaldehyde is released during the curing phase. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause the skin to become sensitized.

Avoid any contact with skin or clothing and wash thoroughly after handling.

Emits toxic fumes when heated.

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HAZARDS NOT OTHERWISE CLASSIFIED:

Prolonged or repeated exposure may dry skin and / or cause skin irritation. Sanding and grinding dust may be harmful if inhaled. Sanding and grinding dust may form combustible concentrations in air.

Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family : Mixture of organic compounds

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

GHS CLASSIFICATION:LIQUID POLYSULFIDE POLYMER // OSHA HAZARDS: TARGET ORGAN EFFECT, IRRITANT, FLAMMABLE LIQUID

EYE IRRITATION (CATEGORY 2)

SKIN IRRITATION (CATEGORY 2)

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

AQUATIC, CHRONIC (CATEGORY 3)

2-BUTANONE

OSHA HAZARDS: FLAMMABLE LIQUID, TARGET ORGAN EFFECT, IRRITANT TARGET ORGANS: CENTRAL NERVOUS SYSTEM GHS CLASSIFICATION: 2-BUTANONE FLAMMABLE LIQUIDS (CATEGORY 2) ACUTE TOXICITY, ORAL (CATEGORY 5) EYE IRRITATION (CATEGORY 2A) SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE (CATEGORY 3), CENTRAL NERVOUS SYSTEM OTHER HAZARDS: REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS AND CRACKING

CALCIUM CARBONATE:

GHS CLASSIFICATION: CALCIUM CARBONATE EYE DAMAGE (CATEGORY 1) SKIN IRRITATION (CATEGORY 2) SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3)

TITANIUM DIOXIDE

OSHA HAZARDS: CARCINOGEN GHS CLASSIFICATION: TITANIUM DIOXIDE SKIN IRRITATION: (CATEGORY 3) CARCINOGENICITY (CATEGORY 2)

LIMESTONE:

GHS CLASSIFICATION: LIMESTONE Acute Toxicity : Oral (Category 4) Skin Corrosion/Irritation - (Category 2) Eye Damage / Irritation - (Category 2B) Carcinogenicity (CATEGORY 1A) Specific Target Organ Toxicity - Repeated Exposure -STOT RE- (Category 1) Specific Target Organ Toxicity - Single Exposure -STOT SE- (Category 3)

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| SUBSTANCE % by weight in the product | | На | &P STATEMENTS | CAS | EINECS/ELINCS | |
|---|------|--|---|------------|---------------|--|
| | | | | | | |
| LIQUID POLYSULFIDE-POLYMER < 71% | | P210, | I335,H315,H412,H223, P270,P305+P351+P338 | N/A | POLYMER | |
| 2-BUTANONE (MEK) | <15% | +P313,P306+P361,P370+P260 H225,H303+H333,H319,H336,P210, P261,P305+P351+P338 H319,H335,H315,H332,H312,H302 H373,P305+P351+P313,P280+ | | 78-93-3 | 201-159-0 | |
| Titanium Dioxide | <3% | | | 13463-67-7 | 236-675-5 | |
| Calcium Carbonate | <35% | P281,P262,P102,P280 H319 P305+P351+P313,P280 | | 72608-12-9 | 207-439-9 | |
| Limestone | <15% | - | , H318,H335,H319 +P351+P338+P313,P280 | 1317-65-3 | 207-439-9 | |

Section -4. FIRST-AID MEASURES

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

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

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

Eye contact: Check for and remove any contact lenses. Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek immediate medical attention.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person.

Section -5. FIRE-FIGHTING MEASURES

Extinguishing agents

Recommended: Universal resistant foam, CO2, 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.

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

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

HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE: CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN OXIDES, SULFUR OXIDES HALOGENATED COMPOUNDS, METAL OXIDE / OXIDES, AND FORMALDEHYDE

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Section -6. ACCIDENTAL RELEASE MEASURES

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

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

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.

Section -7. HANDLING AND STORAGE

7.1 Handling:

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy/while nursing.

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

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

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

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

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

7.2 Storage:

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures:

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

8.2 Exposure limits

| Work place exposure limits (8 hour) | | | | | |
|---------------------------------------|---|---|--|--|--|
| Substance | OSHA | ACGIH TWA | | | |
| ALIPHATIC POLYSULFIDE-POLYMER | Not known | Not known | | | |
| 2-BUTANONE (MEK) * | 200 ppm | 200 ppm | | | |
| CALCIUM CARBONATE * | 5 mg/m ³ (RESPIRABLE FRACTION) | 3 mg/m ³ (RESPIRABLE FRACTION) | | | |
| CALCIUM CARBONATE * | 15mg/m ³ (TOTAL DUST) | 10 mg/m ³ (TOTAL DUST) | | | |
| TITANIUM DIOXIDE * | 15mg/m ³ (TOTAL DUST) | 10 mg/m ³ (TOTAL DUST) | | | |
| LIMESTONE * | 5 mg/m ³ (RESPIRABLE FRACTION) | Not known | | | |
| | 15mg/m ³ (TOTAL DUST) | Not known | | | |
| * can be absorbed through skin | | | | | |

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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.

| 9. PHYSICAL AND CHEMICAL PROPERTIES | | | |
|-------------------------------------|---|--|--|
| | 1 | | |

| Flash point: 72 ° F (22.22 ° C) Method: TCC Specific gravity at: 68 ° F (20 ° C) 1.55 g/cm3 Vapor Density: N/A Lower Explosive Limit (% vol.): 1.3 Upper Explosive Limit '(% vol.): 7.1 Odor: Polysulfide Odor Miscibility in water at 20 ° C: Negligible VOC : 218 g/l Volatile by Volume % : 15 Vapor pressure at: 68 ° F (20 ° C) 2 mm Hg Color: Red Appearance: Paste Odor: Polysulfide Odor Boiling Point: >100 ° F Material Supports Combustion : Yes | Physical state at: 68 º F (20 º C) Liquid | • Ph : 8.5 |
|--|---|--|
| Vapor Density: N/A Lower Explosive Limit (% vol.): 1.3 Upper Explosive Limit '(% vol.): 7.1 Miscibility in water at 20 ° C: Negligible Color: Red Appearance: Paste Odor: Polysulfide Odor Boiling Point: >100 ° F | • Flash point: 72 ° F (22.22 ° C) Method: TCC | Volatile by Volume % : 15 |
| Lower Explosive Limit (% vol.): 1.3 Upper Explosive Limit '(% vol.): 7.1 Miscibility in water at 20 ° C: Negligible Boiling Point: >100 ° F | Specific gravity at: 68 ° F (20 ° C) 1.55 g/cm3 | • Vapor pressure at: 68 º F (20 º C) 2 mm Hg |
| Upper Explosive Limit '(% vol.): 7.1 Miscibility in water at 20 ° C: Negligible Boiling Point: >100 ° F | Vapor Density: N/A | • Color: Red |
| • Miscibility in water at 20 ° C: Negligible • Boiling Point: >100 ° F | Lower Explosive Limit (% vol.): 1.3 | Appearance: Paste |
| | •Upper Explosive Limit '(% vol.): 7.1 | •Odor: Polysulfide Odor |
| VOC : 218 g/l Material Supports Combustion : Yes | Miscibility in water at 20 º C: Negligible | Boiling Point: >100°F |
| | • VOC : 218 g/l | Material Supports Combustion : Yes |

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

- Halogenated Compounds
- Oxides of Carbon, Nitrogen, Sulfur Dioxide, Trace Hydrogen Sulfide

Sulfur OxidesCarbon Dioxide

Metal Oxide / Oxides

Formaldehyde

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 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

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| ACUTE TOXICITY: | | | | | | |
|-------------------------|-------------------------------|---------------------|------------|----------|--|--|
| PRODUCT: | RESULT | SPECIES | DOSE | EXPOSURE | | |
| Calcium Carbonate | LD50 ORAL | Rat | 6450 mg/kg | - | | |
| Butanone | LC50 Inhalation Vapor | Rat | 11243 ppm | 4 Hours | | |
| | LD50 Dermal | Rabbit | 6480 mg/kg | - | | |
| | LD50 ORAL | Rat | 2737 mg/kg | - | | |
| Titanium Dioxide | LD50 ORAL | Rat | >10g/kg | - | | |
| May cause damage to | organs through prolonged or | r repeated exposu | re. | | | |
| Suspected of causing of | cancer. Risk depends on level | l and duration of e | exposure. | | | |
| Suspected of damagin | g the unborn child. | | | | | |

CARCINOGENICITY:

| INGREDIENT | IARC | OSHA | NTP | CAS# |
|--------------------|------|------|-----|------------|
| TITANIUM DIOXIDE : | 2B | - | - | 13463-67-7 |

SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

BUTANONE - CATEGORY 3 LIQUID POLYMER - CATEGORY 3 LIQUID POLYMER - CATEGORY 3

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.

ATE VALUE : Oral - 6984 mg/kg

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.

Toxicity :

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

| Bioaccumulative Potential : | | | |
|-----------------------------|----------|-----|-----------|
| Product / Ingredient | LogP(ow) | BCF | Potential |
| Butanone | .29 | - | low |

Mobility in Soil : Not Available

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13. DISPOSAL CONSIDERATIONS

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations. React with curing agent and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

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

14. TRANSPORT INFORMATION

DOT: § 172.101 HAZARDOUS MATERIALS TABLE UN Number: 1133 Proper Shipping Name: Adhesives Labels: Flammable Liquid



Hazard Class: 3 Subclass: NO Packaging Group: III Limited Quantity: Passenger aircraft: 60 Liter (16 gallon) Cargo aircraft only: 220 Liter (58 gallon) Vessel stowage: A ERG: 128 NMFC: 4620 SUB.6 – CL.60 Schedule B # 3506.91.0000 IATA:

UN Number: 1133 Proper Shipping Name: Adhesives Labels: Flammable Liquid

Hazard Class: 3 Subclass: NO Packaging Group: III Passenger Air Packing Instruction : 309 Passenger aircraft: 60 Liter (16 gallon) Cargo Air Packing Instruction : 310 Cargo aircraft only: 220 Liter (58 gallon)

IMDG: UN Number: 1133 Proper Shipping Name: Adhesives Label: 3 Hazard Class: 3 Subclass: NO Packaging Group: III EMS No: F, E – S, D

15. REGULATORY INFORMATION

| US Regulations Federal | | | | |
|--|-------------------|-------------|----------|------------------|
| chemical (s) subject to the reporting | Chemical Name | CAS No | Weight % | Threshold limit |
| requirements of section 313 of Title III | | | | (Reporting Value |
| and of 40 CFR 372 (SARA) | | | | |
| | LIQUID POLYMER | N/A | 50%-71% | Unknown |
| | 2-BUTANONE | 78-93-3 | <15% | Unknown |
| | Calcium Carbonate | 72608-12-9 | <35% | Unknown |
| | LIMESTONE | 1317-65-3 | <15% | Unknown |
| | Titanium Dioxide | *13463-67-7 | < 3% | Unknown |
| | *(DELE | | | |

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 | LIQUID POLYMER | N/A | 50%-71% | 4.00/ |
|---|-------------------|-------------------------|-------------|---------|
| (Developmental – Female) | LIQUID POLYMER | | 50%-71% | >=1.0% |
| Massachusetts | LIQUID POLYMER | N/A | 50%-71% | >=1.0% |
| New Jersey | LIQUID POLYMER | N/A | 50%-71% | >=1.0% |
| Pennsylvania | LIQUID POLYMER | N/A | 50%-71% | >=1.0% |
| Rhode Island | LIQUID POLYMER | N/A | 50%-71% | >=1.0% |
| California Proposition 65 (Developmental – Female) | 2-BUTANONE | 78-93-3 | <15% | >=1.0% |
| Massachusetts | 2-BUTANONE | 78-93-3 | <15% | >=1.0% |
| New Jersey | 2-BUTANONE | 78-93-3 | <15% | >=1.0% |
| Pennsylvania | 2-BUTANONE | 78-93-3 | <15% | >=1.0% |
| Rhode Island | 2-BUTANONE | 78-93-3 | <15% | >=1.0% |
| California Proposition 65 | Calcium Carbonate | 72608-12-9 | <35% | . 4.00/ |
| (Developmental – Female) | | * | | >=1.0% |
| Massachusetts | Calcium Carbonate | 72608-12-9 | <35% | >=1.0% |
| New Jersey | Calcium Carbonate | 72608-12-9 | <35% | >=1.0% |
| Pennsylvania | Calcium Carbonate | 72608-12-9 | <35% | >=1.0% |
| Rhode Island | Calcium Carbonate | 72608-12-9 | <35% | >=1.0% |
| California Proposition 65 | Titanium Dioxide | 13463-67-7 | <3% | . 4.00/ |
| (Developmental – Female) | | * ! ! ! | ** | >=1.0% |
| Massachusetts | Titanium Dioxide | 13463-67-7 | <3% | >=1.0% |
| New Jersey | Titanium Dioxide | 13463-67-7 | <3% | >=1.0% |
| Pennsylvania | Titanium Dioxide | 13463-67-7 | <3% | >=1.0% |
| Rhode Island | Titanium Dioxide | 13463-67-7 | <3% | >=1.0% |
| California Proposition 65 | Limestone | 1317-65-3 | <15% | 4 00/ |
| (Developmental – Female) | | + | | >=1.0% |
| Massachusetts | Limestone | 1317-65-3 | <15% | >=1.0% |
| New Jersey | Limestone | 1317-65-3 | <15% | >=1.0% |
| Pennsylvania | Limestone | 1317-65-3 | <15% | >=1.0% |
| Rhode Island | Limestone | 1317-65-3 | <15% | >=1.0% |

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United States: Sara 302/304 (Sara 304 RQ): Not Applicable Information On Ingredients: None Were Found Sara 311/312 Classification: Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard **Information On Ingredients:** Butanone: Fire Hazard, Immediate (acute) Health Hazard Polysulfide Polymer: Immediate (acute) Health Hazard Titanium Dioxide: Delayed (chronic) Health Hazard Sudden Release Of Pressure: No Products Reactivity: No Products Sara 313 Notification: * Barium bis[2-[(2-hydroxynaphthyl)azo] CAS #1103-38-4 Percentage of Mixture - < 2% naphthalenesulphonate * Do not detach SARA 313 notifications from SDS. All copies of SDS must include SARA 313 notifications.

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.

<u>Canada</u>



Class B – Flammable 2-BUTANONE



Class D - Poisonous and Infectious materials Division 2: Materials Causing Other Toxic Effects D2A D2B Limestone CAS# 1317-65-3 Liquid Polysulfide Polymer CAS# N/A 2-BUTANONE CAS#78-93-3 Titanium Dioxide CAS# 13463-67-7 Calcium Carbonate CAS# 72608-12-9

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):TOLUENE CAS:108-88-3

2-BUTANONE CAS#78-93-3 Calcium Carbonate CAS#72608-12-9 Limestone CAS# 1317-65-3 Liquid Polysulfide Polymer cas# N/A Titanium Dioxide CAS#13463-67-7

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16. OTHER INFORMATION

| HEALTH FLAMMABILITY REACTIVITY PPE | 2 3 0 H | HEALTH FLAMMABILITY REACTIVITY PPE | 2 3 0 H | Customer and for determinir | / or end user is responsible ng PPE. |
|---|------------------|--|------------------|-----------------------------|---|
| NFPA | | HMI | S | | |
| | 1 | | I | | 1 |
| Preparer: | Rev-A | master / Compliance 4/20/2015 sedes (conversion) | Revis | ion Notes: A | Conversion to ANSI format |
| Containers: | | : jars, metal cans Ige kits | | | |
| Limited Quantity | See SE | DS Section 14 | | | |

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.

End of Safety Data Sheet

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. Page 11 of 11



SAFETY DATA SHEET FEBRUARY 2016

13576 Desmond Street

Pacoima, CA 91331 - USA

| on -1. CHEMICAL PR | ODUCT AND COMP | ANY IDENTIFICATIO | N | | |
|------------------------|------------------------|---------------------------------------|-----------------------------------|--------------------|-------------|
| 1.1. Product Identifie | er: CS-3330 C.I. Par | t B Class A (all applic | ation times) | | |
| - Product Name: Co | rrosion Inhibiting Se | ealant / Catalyst Pari | В | | |
| - Product reference: | CS-3330 C.I. CLA P1 | ГВ | | | |
| 1.2. Product Use: | | | | | |
| - Corrosion Inhibitir | ng Sealant Catalyst | | | | |
| 1.3. Manufacturer's | Name: | | 1.3.1 Suppliers | Name (if not man | ufacturer) |
| CAGE Code: 14439 | | | | | |
| Flamemaster Corp. | | | | | |
| Chem Seal Division | | | | | |
| 13576 Desmond Stre | eet | | | | |
| Pacoima, CA 91333 - | – USA | | | | |
| Technical Contact: | | | 1.4. Emergency | y Telephone: | |
| Flamemaster C | Corp. | | Chemtrec – Chemtrec International | | |
| Tel: 818-890-1 | 401 | | 800-424-9300 | (North America) | |
| Fax: 818-890-6001 | | 703-527-3887 (Outside North America)) | | | |
| www.flamema | <u>ster.com</u> | | | | |
| Specification: | AMS 3284 TYPE | 2 PART B CAT | ALYST CLASS A | (CORROSION IN | HIBITING) |
| NSN: | 8030-00-291-8380 | 8030-00-264-6583 | 8030-00-152-0062 | 8030-00-598-2090 | |
| INDIN. | CS3330C.I. A1/2 1/2 PT | CS3330C.I. A1/2 PINT | CS3330C.I. A-2 2.50Z | CS3330C.I.A-2 PINT | |

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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 SKIN CORROSION / IRRITATION 2, H315 SERIOUS EYE DAMAGE / EYE IRRITATION 2B, H318 SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373 AQUATIC CHRONIC 4, 413 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.

continued next page

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

HAZARDS NOT OTHERWISE CLASSIFIED: OXIDISING POTENTIAL: Contact with combustible material may result in fire. Keep away from combustible materials. This material increases the risk of fire and may aid in combustion.

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

Other Hazards that do not result in classification:

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

| Section -3. COMPOSITION / INFORMATION ON INGREDIENTS | | | | | |
|--|-----------------|---------------|----------------|--|--|
| Chemical family : Mixture of organic compou | nds | | | | |
| For the hazards of the composition, (SDS see | Section 2). | | | | |
| | | | | | |
| CHEMICAL NAME: MANGANESE DIOXIDECAS# 1313-13-9EC# 215-202-6<65% by weightOSHA HAZARDS: TARGET ORGAN EFFECT, TOXIC BY INHALATIONTARGET ORGANS: NERVES, LUNGS5555GHS CLASSIFICATION:ACUTE TOXICITY, ORAL (CATEGORY 4) - H302555555ACUTE TOXICITY, INHALATION (CATEGORY 4) - H332CAS# 1313-13-9555555 | | | | | |
| CHEMICAL NAME: TERPHENYL, HYDROGENATED AQUATIC CHRONIC (CATEGORY 4) - H413 | CAS# 61788-32-7 | EC# 262-967-7 | <50% by weight | | |
| CHEMICAL NAME: ZEOLITES NOT CLASSIFIED | CAS#1318-02-1 | EC# 215-283-8 | <15% by weight | | |
| CHEMICAL NAME: TALC NOT CLASSIFIED | CAS# 14807-96-6 | EC# 238-877-9 | <10% by weight | | |
| CHEMICAL NAME: CARBON BLACK NOT CLASSIFIED | CAS# 1333-86-4 | EC# 215-609-9 | <10% by weight | | |
| CHEMICAL NAME: TERPHENYL AQUATIC ACUTE (CATEGORY 1) - H400 AQUATIC CHRONIC (CATEGORY 1) - H410 | CAS# 26140-60-3 | EC# 247-477-3 | <10% by weight | | |
| CHEMICAL NAME: 1,3 DIPHENYLGUANIDINE 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 | | |

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| CHEMICAL NAME: BIS(PIPERIDINOTHIOCARBONYL) TETRASULFIDE SKIN SENSITIVITY (CATEGORY 1) - H317 | CAS# 120-54-7 | EC# 204-406-0 <3% by weight |
|--|-----------------|-----------------------------|
| CHEMICAL NAME: POLYPHENYL, QUATER AND HIGHER | CAS# 68956-74-1 | <10% by weight |
| MAGNESIUM CARBONATE | CAS# 546-93-0 | <10% by weight |
| CHEMICAL NAME: SODIUM MOLYBDATE ANHYDROUS ACUTE TOXICITY - INHALATION (CATEGORY 4) , H332 | CAS# 7631-95-0 | < 20% by Weight |
| CHEMICAL NAME : AMMONIUM MOLYBDATE TETRAHYDRATE SERIOUS EYE DAMAGE / EYE IRRITATION 2B, H318 SKIN CORROSION / IRRITATION 2, H315 | CAS# 12054-85 | -2 <20% by Weight |

Section -4. FIRST-AID MEASURES

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

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

Eye contact: Check for and remove any contact lenses. Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek immediate medical attention.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person. Section -5. FIRE-FIGHTING MEASURES

Extinguishing agents

Recommended: Universal resistant foam, 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

Section -6. ACCIDENTAL RELEASE MEASURES

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

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

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

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Section -7. HANDLING AND STORAGE

7.1 Handling:

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy / while nursing.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed. Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

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

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

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

7.2 Storage:

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures:

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

8.2 Exposure limits

| Work place exposure limits (8 hour) | | | | |
|---------------------------------------|--|--|--|--|
| Substance ACGIH TLV | | | | |
| Manganese Dioxide | TWA: 0.1mg/m ³ (as Mn) 8 hours (Inhalable Fraction) | | | |
| | TWA: 0.02mg/m ³ (as Mn) 8 hours (Respirable Fraction) | | | |
| Terphenyl, Hydrogenated | TWA: 4.9 mg/m ³ 8 hours | | | |
| | TWA: 0.5 ppm 8 hours | | | |
| Zeolites | TWA: 1mg/m ³ 8 hours (Respirable Fraction) | | | |
| Talc | TWA: 2mg/m ³ 8 hours (Respirable Fraction) | | | |
| Carbon Black | TWA: 3mg/m ³ 8 hours (Inhalable Fraction) | | | |
| Terphenyl | C: 5mg/m ³ | | | |
| | C: 0.53 ppm | | | |
| MAGNESIUM CARBONATE | TWA: 5mg/m ³ (Respirable Fraction) | | | |
| | TWA: 15 mg/m ³ 8 hours (Total Dust) | | | |
| SODIUM MOLYBDATE | TWA: 5mg (Mo)/m ^a | | | |
| | OSHA PEL TWA: 5mg (Mo)/m ³ | | | |

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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.

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) N/A
- Vapor Density: N/A
- Lower Explosive Limit (% vol.): N/A
- Upper Explosive Limit '(% vol.): N/A
- Miscibility in water at 20 º C: NEGLIGIBLE
- Material Supports Combustion. : Yes

- Ph : N/A
- •% VOLATILE BY VOLUME N/A
- Vapor pressure at: 68 ° F (20 ° C) N/A
- Color: BLACK
- Appearance: PASTE
- Odor: NEGLIGIBLE OILY ODOR
- Boiling Point: N/A

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
- Carbon monoy
- 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

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ACUTE TOXICITY:

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

CARCINOGENICITY:

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

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

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 | | | |

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.

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

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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-Diphenylguanidi | ne : Fire Hazard Immediate (acute) health hazard Delayed (chronic) health hazard |
| Bis (piperidinothioca tetrasulfide | rbonyl) : Fire Hazard Immediate (acute) health hazard |

US Regulations Federal

| chemical (s) subject to the reporting requirements of section 313 of Title III | Chemical Name | CAS No | Weight % | Threshold limit (Reprting Value) |
|---|-------------------|-----------|----------|-------------------------------------|
| and of 40 CFR 372 (SARA) | 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 | | 1212 12 0 | | . 1.00/ |
|---------------------------|-------------------|-----------|-------|---------|
| (Developmental – Female) | MANGANESE DIOXIDE | 1313-13-9 | < 65% | >= 1.0% |
| Massachusetts | MANGANESE DIOXIDE | 1313-13-9 | < 65% | >= 1.0% |
| New Jersey | MANGANESE DIOXIDE | 1313-13-9 | < 65% | >= 1.0% |
| Pennsylvania | MANGANESE DIOXIDE | 1313-13-9 | <65% | >= 1.0% |
| Rhode Island | MANGANESE DIOXIDE | 1313-13-9 | <65% | >= 1.0% |

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California Prop 65 Warning :

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



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

NFPA

HMIS

Section 16 Other Information

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.

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Revision Notes: A

Conversion to ANSI format

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

Containers: Plastic Jars, Metal Cans, Cartridge Kits

Maximum Container Size: 50 Gallons/190 Liters

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END OF SAFETY DATA SHEET

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