



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

**SAFETY DATA SHEET**  
**NOVEMBER 04, 2021**

**File: E-340 PTB GSA 07-10**  
**Blast Resistant Ablative**  
**Coating/Catalyst**  
**Part B**

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

- 1.1. Product Identifier: E-340 Blast Resistant Ablative Coating Compound (Part B)-All Colors
- Product Name: E-340 Blast Resistant Ablative Coating Compound / Part B / All Colors
- Product reference: E-340 Ablative Compound (Part B) Catalyst / All Colors

**1.2. Product Use:**

- Blast Resistant Ablative Coating Compound

**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:**

**Emergency Contact Information :**  
 See Below

Specification: MIL-C-47244 / MIS 36199 BLAST RESISTANT ABLATIVE COATING PART B ALL COLORS					
<b>NSN:</b>	8030-00-097-9088 E-340 QUART KIT	8030-00-X76-1474 E-340 GALLON KIT	8030-01-032-1749 E-340 GALLON KIT	8030-00-164-4389 E-340N GALLON KIT	8030-01-353-8379 E-340 2-GALLON KIT
	8030-00-097-9088 E-340 GALLON KIT	8030-01-355-3030 E-340 GALLON KIT			

**Emergency Contact:**

**CHEMTEL: WWW.CHEMTELINE.COM**

**Flamemaster Corporation Contract Number MIS2644301**

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

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

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

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

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

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

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

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

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

**China : 400-120-0751 : Reference Number MIS2644301**

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

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

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

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Serious Eye Damage / Eye Irritation (Category 1), H318  
Respiratory Sensitisation, (Category 1), H334  
Skin Sensitisation, (Category 1), H317  
Germ Cell Mutagenicity, (Category 2), H341  
Carcinogenicity, (Category 1A), H350  
Specific Target Organ Toxicity-Single Exposure-(Category 3), Respiratory Tract Irritation H335  
Acute Aquatic Toxicity (Category 3), H412  
Chronic Aquatic Toxicity, (Category 3), H413  
Skin Irritation, (Category 1B), H314  
Reproductive Toxicity, (Category 2), H361  
Reproductive Toxicity, Effects On Or Via Lactation  
Specific Target Organ Toxicity-Single exposure-(Category 3), Narcotic Effects H336  
Specific Target Organ Toxicity-Repeated Exposure-(Category 2), H372  
Aspiration Hazard, (Category 1), H304  
Acute Toxicity (Oral) (Category 4), H302  
Acute Toxicity (Inhalation) (Category 4), H332

**Hazards not otherwise classified (HNOC) or not covered by GHS:**

If sanding, grinding or abrading material, combustible dust may form in air. Airborne dust damages the lungs by inhalation. Avoid physical exposure by allowing adequate ventilation and using proper personal protection equipment.

**GHS Label Elements, Including Precautionary Statements**

Pictograms:



Signal Word: DANGER

**HAZARD STATEMENTS:**

H302 Harmful if swallowed  
H304 May be fatal if swallowed and enters airways.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction  
H318 Causes Serious Eye Damage  
H332 Harmful if inhaled  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation  
H336 May cause drowsiness or dizziness  
H341 Suspected of causing genetic defects.  
H350 May Cause Cancer  
H361 Suspected of damaging fertility or the unborn child  
H362 May cause harm to breast-fed children  
H372 Causes damage to organs through prolonged or repeated exposure.  
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS  
H413 May cause long lasting harmful effects to aquatic life

**In the event of sanding, grinding, or abrading:**

H372 Causes damage to organs through prolonged or repeated exposure.

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**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.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.

**FULL TEXT OF P-STATEMENTS ASSOCIATED WITH THIS COMPOUND**

- P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathe dust / fumes / gas / mist / vapors / spray.  
P261: Avoid breathing dust / fumes / gas / mist / vapors / spray.  
P263: Avoid contact during pregnancy / while nursing.  
P264: Wash thoroughly after handling.  
P270: Do not eat, drink, or smoke when using this product.  
P271: Use only outdoors or in a well - ventilated area.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P273: Avoid release to the environment.  
P280: Wear protective gloves / protective clothing / eye protection / face protection.  
P281: Use personal protection equipment as required.  
P285 : In case of inadequate ventilation wear respiratory protection  
P301+310: IF SWALLOWED: Immediately call a POISON CENTER / doctor / ...  
P301+312: IF SWALLOWED: Call a POISON CENTER / doctor / .../ if you feel unwell.  
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+352: IF ON SKIN: Wash with plenty of water / ...  
P303+361+353: IF ON SKIN ( or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P304+341 : IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable 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.  
P310: Immediately call a POISON CENTER / doctor/...  
P312: Call a POISON CENTER / doctor /... / if you feel unwell.  
P314: Get medical advise / attention if you feel unwell.  
P321: Specific treatment...See Label Information  
P330: Rinse mouth  
P331: Do NOT induce vomiting.  
P333+313: If skin irritation or a rash occurs: Get medical advice / attention.  
P342+311: If experiencing respiratory symptoms: Call a POISON CENTER / doctor / ...  
P363: Wash contaminated clothing before reuse.  
P391: Collect spillage.  
P403+233: Store in a well ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents / containers in accordance with local / regional / national / international regulations

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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): 2, 4, 6-Tris(dimethylaminomethyl)phenol**

- Skin Corrosion (Category 1B), H314  
Serious eye damage (Category 1), H318  
Skin sensitisation (Sub Category 1B), H317  
Acute aquatic toxicity (Category 3), H402  
Chronic aquatic toxicity (Category 3), H412

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**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS):****fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine**

Skin Corrosion / Irritation (Category 1B)

Serious Eye Damage / Eye Irritation (Category 1)

Skin Sensitization (Category 1A)

Aquatic Hazard (Acute) - (Category 3)

Aquatic Hazard (Long Term) - (Category 3)

**1,2-ETHANEDIAMINE N1,N2-BIS (2-AMINOETHYL)**

Skin Corrosion / Irritation (Category 1B)

Serious Eye Damage / Eye Irritation (Category 1)

Skin Sensitization (Category 1A)

Aquatic Hazard (Acute) - (Category 3)

Aquatic Hazard (Long Term) - (Category 3)

**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): Silicone Dioxide**

CARCINOGENICITY (CATEGORY 1A), H350

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE-(STOT RE)- INHALATION (CATEGORY 1), LUNGS, H372

**GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): CERAMIC FIBER (ALUMINO SILICATE WOOL)**

CARCINOGENICITY (CATEGORY 2B), H351

SUBSTANCE	% by weight in the product	CAS	EINECS/ELINCS
2, 4, 6-Tris(dimethylaminomethyl)phenol	<10%	90-72-2	202-013-9
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	<40%	N/A	N/A
SILICONE DIOXIDE	<50%	14808-60-7	238-878-4
CERAMIC FIBER (ALUMINO SILICATE WOOL)	<3%	142844-00-6	N/A
1,2-ETHANEDIAMINE N1,N2-BIS (2-AMINOETHYL)	<40%	90640-67-8	N/A

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

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

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

**Eye contact:** Check for and remove any contact lenses. Irrigate with clean, fresh water for at least 15 minutes, holdin the eyelids 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, 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.

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

Emits toxic fumes when heated.

**IN CASE OF COMBUSTION HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:**

- Carbon Monoxide
- Traces of Benzene
- Metal Oxides
- Carbon Dioxide
- Nitrogen Oxides
- Silicone Oxides
- Smoke
- Soot
- Silicone Dioxide
- Toxic fumes
- Benzene by products
- Magnesium Oxide
- Carbon Oxides
- Calcium Oxide

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.

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.

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**Section -7. HANDLING AND STORAGE**

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**7.1 Handling:**

No smoking, eating and drinking during handling.

Avoid contact/exposure during pregnancy/while nursing.

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

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

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

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

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

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

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**7.2 Storage:**

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

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**8.1 Engineering measures:**

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

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

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**8.2 Exposure limits**

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

Substance	OSHA PEL	ACGIH TLV
CERAMIC FIBER (ALUMINO SILICATE WOOL) *	NIOSH REL-0.5 f/cc, 8-HR TWA	0.2 f/cc TLV, 8-HR TWA
Calcium Sulfate, Anhydrous *	5 mg/m <sup>3</sup> (Respirable Fraction)	10 mg/m <sup>3</sup> (Inhalable Fraction)
Calcium Sulfate, Anhydrous *	15 mg/m <sup>3</sup> (Total Dust)	
SILICONE DIOXIDE *	10.000000 mg/m <sup>3</sup>	0.025mg/m <sup>3</sup>
Hydrous Magnesium Silicate *	20 million particles per cubic foot	2.000000 mg/m <sup>3</sup>
* can be absorbed through skin		

**8.3 Personal protection**

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

**Respiratory protection :**

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

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**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.

**Environmental Exposure Controls:** Emissions from workplace ventilation systems or work process equipment should be periodically checked to ensure compliance with local environmental laws.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**


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| <ul style="list-style-type: none"> <li>• Physical state at: 68 ° F (20 ° C) Liquid</li> <li>• Flash point: +93 ° C --- +200 Deg. F Method: TCC</li> <li>• Specific gravity at: 68 ° F (20 ° C) 1.42 g/cm<sup>3</sup></li> <li>• Vapor Density: N/A</li> <li>• Lower Explosive Limit-None</li> <li>• Upper Explosive Limit-None</li> <li>• Miscibility in water at 20 ° C: Slight</li> </ul> | <ul style="list-style-type: none"> <li>• Ph : 10</li> <li>• Volatile % by volume: 0.10 %</li> <li>• Vapor pressure at: 68 ° F (20 ° C) &lt; 0.01</li> <li>• Color: All Colors</li> <li>• Appearance: Paste</li> <li>• Odor: Amine Odor</li> <li>• Boiling Point: 550 Deg. F</li> </ul> |
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**10. STABILITY AND REACTIVITY**


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Stable under recommended storage and handling conditions (see SDS section 7).  
 Emits toxic fumes when heated.

**IN CASE OF COMBUSTION HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:**

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|---|---|--|
| <ul style="list-style-type: none"> <li>• Carbon Monoxide</li> <li>• Traces of Benzene</li> <li>• Metal Oxides</li> <li>• Carbon Dioxide</li> <li>• Nitrogen Oxides</li> </ul> | <ul style="list-style-type: none"> <li>• Silicone Oxides</li> <li>• Smoke</li> <li>• Soot</li> <li>• Silicone Dioxide</li> <li>• Toxic fumes</li> </ul> | <ul style="list-style-type: none"> <li>• Benzene by products</li> <li>• Magnesium Oxide</li> <li>• Carbon Oxides</li> <li>• Calcium Oxide</li> </ul> |
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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 effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness, 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 may cause severe irritation and severe damage to the eyes.

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**ACUTE TOXICITY:**

PRODUCT:	TEST	SPECIES	DOSE	RESULT
2, 4, 6-Tris(dimethylaminomethyl) phenol	OECD 401 ACUTE ORAL TOXICITY	RAT	2169 mg/kg	LD 50 ORAL
	Unknown Guidelines	RAT	>971 mg/kg	LD 50 DERMAL
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	OECD 402 Acute Dermal Toxicity	RAT	>2000mg/kg	LD50 DERMAL
	OECD 405 Acute Oral Toxicity	RAT	1716.2 mg/kg	LD50 ORAL

**CHRONIC TOXICITY:**

PRODUCT:	TEST	SPECIES	ENDPOINT	RESULT
2, 4, 6-Tris(dimethylaminomethyl) phenol	OECD 422 COMBINED REPEATED DOSE TOXIC STUDY WITH THE REPRODUCTION/ DEVELOPMENTAL TOXICITY SCREENING TEST	RAT	Sub-acute NOEL Oral	15 mg/kg
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	OECD 422 COMBINED REPEATED DOSE TOXIC STUDY WITH THE REPRODUCTION/ DEVELOPMENTAL TOXICITY SCREENING TEST	Rat	Sub-acute NOEL Oral	1000mg/kg/d

**IRRITATION/CORROSION:**

PRODUCT:	TEST	RESULT	SPECIES
2, 4, 6-Tris(dimethylaminomethyl) phenol	OECD 404 Acute Dermal Irritation/Corrosion EPA CFR	Skin Corrosive	Rabbit
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	OECD 439 In Vitro Skin Irritation	Skin Irritant	Human Skin Model
	OECD 405 Acute Eye Irritation/Corrosion	Eyes-Severe Irritant	Rabbit

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**Skin:**

fatty Acids, C18-unsatd., Dimers,  
 Oligomeric Reaction Products  
 with Tall-Oil Fatty Acids and  
 Triethylenetetramine  
**Irritating to Skin**

**Eyes:**

fatty Acids, C18-unsatd., Dimers,  
 Oligomeric Reaction Products  
 with Tall-Oil Fatty Acids and  
 Triethylenetetramine  
**Severely irritating to Eyes**

1,2-ETHANEDIAMINE N1,N2-BIS (2-AMINOETHYL)  
 Causes severe skin burns and eye damage.

**Sensitizer:**

PRODUCT:	ROUTE OF EXPOSURE	SPECIES	RESULT
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	Skin	Mouse	Sensitizing
2, 4, 6-Tris(dimethylaminomethyl) phenol	OECD 406 SKIN SENSITISATION SKIN	GUINEA PIG	NOT SENSITIZING
1,2-ETHANEDIAMINE N1,N2-BIS (2-AMINOETHYL) Causes Skin Sensitization			

**CARCINOGENICITY:**

INGREDIENT	IARC	OSHA	NTP	CAS#
Ceramic Fiber	2B	-	Reasonably anticipated to be a human carcinogen	142844-00-6
Silicone Dioxide:	1	-	Known to be a human carcinogen	14808-60-7

**REPRODUCTIVE TOXICITY**

PRODUCT:	TEST	SPECIES	RESULTS
2, 4, 6-Tris(dimethylaminomethyl) phenol	OECD 422 COMBINED REPEATED DOSE TOXICITY STUDY	RAT	MATERNAL TOXICITY-NEGATIVE FERTILITY- NEGATIVE DEVELOPMENTAL EFFECTS-NEGATIVE

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**SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE:**

Silicone Dioxide- Inhalation-Causes damage to organs through prolonged or repeated exposure

2, 4, 6-Tris(dimethylaminomethyl)phenol-Oral-Causes damage to organs through prolonged or repeated exposure- (Category 2)

**Conclusion / Summary**

2, 4, 6-Tris(dimethylaminomethyl)phenol : Corrosive to the skin

2, 4, 6-Tris(dimethylaminomethyl)phenol : Corrosive to the eyes

2, 4, 6-Tris(dimethylaminomethyl)phenol : Not mutagenic in a standard battery of genetic toxicological tests

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.

**12. ECOLOGICAL INFORMATION**

There is no data available on the preparation itself.

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.

**Environmental Effects:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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.

**Aquatic Ecotoxicity:**

Product:	Test	Result	Endpoint	Species	Exposure-Static
2, 4, 6-Tris(dimethylaminomethyl) phenol	OECD 201 Algae, Growth Inhibition Test	84 mg/l	ErC50	Algae	72 Hours
	Unknown Guidelines	718 mg/l	LC50	Daphnia	96 Hours
	-	175 mg/l	LC50	Fish	96 Hours
	-	6.25 mg/l	NOEC	Algae	72 Hours
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	OECD 201 Algae, Growth Inhibition Test	4.34mg/l	EC50	Algae	72 Hours
	OECD 209 Activated Sludge	384mg/l	EC50	Bacteria	3 Hours
	OECD 202 Daphnia Immobilisation Test	7.07mg/l	EC50	Daphnia	48 Hours
	OECD 203 Fish Acute Toxicity Test	7.07mg/l	LC 50	Fish	96 Hours
	OECD 201 Algae, Growth Inhibition	1.78mg/l	EC10	Algae	72 Hours

**Bioaccumulative Potential**

Product:	LogPow	BCF	Potential
2, 4, 6-Tris(dimethylaminomethyl)phenol	0.219	-	Low
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	10.34	-	High

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**Persistence and Degradability :**

Product	Test	Period	Result
2, 4, 6-Tris(dimethylaminomethyl)phenol	OECD 301D Ready Biodegradability Closed Bottle Test	28 DAYS	4%
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	OECD 301B CO <sub>2</sub> Evolution Test	74 Days	0 to 70%

Product / Ingredient	Aquatic Half Life	Photolysis	Biodegradability
2, 4, 6-Tris(dimethylaminomethyl)phenol	-	-	Not Readily

**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. Avoid contact with soil, waterways, drains and sewers. Avoid dispersal of spilled material and runoff. Empty containers and/or liners may contain material residue. Empty contaminated packagings thoroughly. Dispose in accordance with all Federal, State, and local health and environmental regulations. Never allow this material, any solutions, or any by-products, as well as any run-off, to come into contact with soil, waterways, wildlife habitats, drains, sewers, and / or the ocean. Avoid release into environment.

**14. TRANSPORT INFORMATION**

DOT: § 172.101 HAZARDOUS MATERIALS TABLE

**UN Number: UN1760**

**Proper Shipping Name : Corrosive Liquid, N.O.S. (TRIETHYLENE TETRAMINE)**

**Class : 8**

**Packing Group : II**

**Labels : Corrosive**

**Packing Instruction ( Cargo Aircraft) : 855**

**Packing Instruction ( Passenger Aircraft) : 851**

**IMDB**

**UN Number: UN1760**

**Proper Shipping Name : Corrosive Liquid, N.O.S. (TRIETHYLENE TETRAMINE)**

**Class : 8**

**Packing Group : II**

**Labels : 8**

**EMS Code : F-A, S-B**

**Marine Pollutant : No**

**Domestic Regulation**

**UN Number: UN1760**

**Proper Shipping Name : Corrosive Liquid, N.O.S. (TRIETHYLENE TETRAMINE)**

**Class : 8**

**Packing Group : II**

**Labels : Corrosive**

**ERG Code : 154**

**Marine Pollutant : No**

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.

**15. REGULATORY INFORMATION**

**US Regulations Federal**

**HCS Classification:**

**SARA 311/312:**

Silicone Dioxide: Chronic Health Hazard  
Ceramic Fibers: Delayed Hazard

fatty Acids, C18-unsatd., Dimers,  
Oligomeric Reaction Products : Immediate Acute Health Hazard  
with Tall-Oil Fatty Acids and  
Triethylenetetramine

**CERCLA HAZARDOUS SUBSTANCES**

Components	Concentration %	Section 304 CERCLA Hazardous Substance
1-chloro-2,3-epoxypropane	<35%	Listed

**chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA)**

Based on available data, this product contains no ingredients listed  
\* Do not detach SARA 313 notifications from SDS. All copies of SDS must include SARA 313 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**

PRODUCT	STATE	CAS#
2, 4, 6-Tris(dimethylaminomethyl)phenol	New Jersey Pennsylvania	90-72-2
Quartz	California (proposition 65)	14808-60-7
Calcium Sulfate Anhydrous	Massachusetts New Jersey Pennsylvania Rhode Island (Not Regulated)	7778-18-9

**California Proposition 65 warning:** This product contains materials known by the state of California to cause cancer, birth defects, and/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):

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**16. OTHER INFORMATION**

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HEALTH 3  
FLAMMABILITY 1  
REACTIVITY 0

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

HEALTH 3  
Chronic \*FLAMMABILITY 1  
REACTIVITY 0

**NFPA****HMIS**

## LIST OF ABBREVIATIONS :

OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION  
ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS  
TWA - TIME WEIGHTED AVERAGE  
IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
NTP - NATIONAL TOXICOLOGY PROGRAM  
SARA - SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT  
NFPA - NATIONAL FIRE PROTECTION ASSOCIATION  
HMIS - HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

Preparer:	Flamemaster / Compliance Rev-A August / 2015 Supersedes (conversion)	Revision Date: 11/04/2021	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 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**

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