

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

Specification: MIL-C-47244 / MIS 36199 <b>BLAST RESISTANT ABLATIVE COATING PART B ALL COLORS</b>					
<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			

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

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  
 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
- 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.

### 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.

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.

---

---

**Section -3. COMPOSITION / INFORMATION ON INGREDIENTS**

---

---

**Chemical family** : Mixture of organic compounds

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

---

**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

**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

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.

SUBSTANCE % by weight in the product	H&P Statements	CAS	EINECS/ELINCS
2, 4, 6-Tris(dimethylaminomethyl)phenol <10%	H314, H317, H318, H412, H413, P264, P272, P273, P280, P301+P330+P331 P303+P361+P353, P304+P340+P310 P305+P351+P338+P310, P333+P313, P363+P313, P363, P405, P501, P261	90-72-2	202-013-9
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine <40%	H318, H314, H317, H412, 413	N/A	N/A
SILICONE DIOXIDE <50%	H350, H372, P201, P202, P260, P264, P270, P280, P308+P313, P405, P501	14808-60-7	238-878-4
CERAMIC FIBER (ALUMINO SILICATE WOOL)	H351, P202, P281+P284, P308+P313	142844-00-6	N/A
1,2-ETHANEDIAMINE N1,N2-BIS (2-AMINOETHYL) <40%	H318, H314, H317, H412, 413	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, hold 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.

#### Section -5. FIRE-FIGHTING MEASURES

##### Extinguishing agents

**Recommended:** Universal resistant foam, CO<sub>2</sub>, water, powder.

**Agents to avoid:** None known

##### Attention

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

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

**Hazardous Decomposition Products:** Carbon Dioxide, Carbon Monoxide, Traces of Benzene (if heated in air above 300° F), Formaldehyde (if heated in air above 300° F), Metal Oxides, Silicone Dioxide, Silicone Oxides, Magnesium Oxide, Carbon Oxides, Nitrogen Oxides, Calcium Oxides, Toxic Fumes

---

---

**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 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.

---

**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

**SPECIAL COMMENTS:** This Product, when heated in air above 300° F, can release traces of Benzene and/or Formaldehyde.

---

---

**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 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.

**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.

**SPECIAL COMMENTS:** This Product, when heated in air above 300° F, can release traces of Benzene and/or Formaldehyde.

---

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

---

- Physical state at: 68 ° F (20 ° C) Liquid
- Flash point: +93 ° C --- +200 Deg. F Method: TCC
- Specific gravity at: 68 ° F (20 ° C) N/A
- Vapor Density: >N/A
- Lower Explosive Limit-None
- Upper Explosive Limit-None
- Miscibility in water at 20 ° C: Slight
- Ph : N/A
- Volatile % by volume: N/A
- Vapor pressure at: 68 ° F (20 ° C) N/A
- Color: All Colors
- Appearance: Paste
- Odor: Ester Odor
- Boiling Point: N/A

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.

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

## 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 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.

### ACUTE TOXICITY:

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

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.

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 OECD 405 Acute Eye Irritation/Corrosion	Skin Irritant  Human Skin Model  Eyes-Severe Irritant  Rabbit

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

#### 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

**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  
 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

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. Do not allow the product to enter drains or water ways. See (SDS Sections 3 and 15)

**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

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.

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

**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.

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.

## 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**

## 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

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.

**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):

---



---

**16. OTHER INFORMATION**

---



---

HEALTH 3  
FLAMMABILITY 1  
REACTIVITY 0

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

**NFPA**

HEALTH 3  
Chronic \*  
FLAMMABILITY 1  
REACTIVITY 0

**HMIS**

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.

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

**Notice to reader:**

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

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

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

Flamemaster Corporation 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