

Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier: E400/E400X Part B
 - Product Name: Ablative Insulative Coating
 - Product reference: E400/E400X Part B

1.2. Product Use:
 Ablative Insulative Coating

1.3. Manufacturer's Name:
CAGE Code: 14439
Flamemaster Corp.
Chem Seal Division
13576 Desmond Street
Pacoima, CA 91333 – USA

1.3.1 Suppliers Name (if not manufacturer)

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

Emergency Contact Information :
 See Below

Specification

AS1129

CATALYST PART B

NSN -NONE ISSUED FOR THIS PRODUCT

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

Section -2. HAZARD (S) IDENTIFICATION

OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

CLASSIFICATION OF THE MIXTURE:

FLAMMABLE LIQUID - CATEGORY 2

ASPIRATION HAZARD - CATEGORY 1

ACUTE TOXICITY, ORAL - CATEGORY 4

ACUTE TOXICITY (INHALATION) - CATEGORY 4

CARCINOGENICITY - Category 2

SKIN CORROSION/IRRITATION - Category 1B

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SKIN SENSITIZATION - CATEGORY 1

GERM CELL MUTAGENICITY-CATEGORY 2

TOXIC TO REPRODUCTION - CATEGORY 2

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

SPECIFIC TARGET ORGAN TOXICITY-REPEAT EXPOSURE -CATEGORY 2

REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION

AQUATIC (CHRONIC) - CATEGORY 4

GHS LABEL REQUIREMENTS:

HAZARD PICTOGRAMS:



SIGNAL WORD : DANGER

HAZARD STATEMENTS:

HIGHLY FLAMMABLE LIQUID AND VAPOR - H225

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304

HARMFUL IF SWALLOWED - H302

HARMFUL IF INHALED - H332

SUSPECTED OF CAUSING CANCER - H351

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE - H314

MAY CAUSE AN ALLERGIC SKIN REACTION - H317

SUSPECTED OF CAUSING GENETIC DEFECTS - H341

SUSPECTED OF DAMAGING FERTILITY. SUSPECTED OF DAMAGING THE UNBORN CHILD - H361fd

MAY CAUSE DROWSINESS OR DIZZINESS - H336

MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373

MAY CAUSE HARM TO BREAST-FED CHILDREN - H362

MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE - H413

In the event of sanding, grinding, or abrading:

H372 Causes damage to organs through prolonged or repeated exposure.

Hazards Not Otherwise Classified (HNOC):

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

Emits toxic fumes when heated.

GENERAL PRECAUTIONARY STATEMENTS:

P101: If medical advice is needed, have product container or label at hand.

P102: keep out of reach of children.

P103: Read label before use.

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PRECAUTIONARY STATEMENTS:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking
- P233: Keep container tightly closed.
- P240: Ground / bond container and receiving equipment.
- P241: Use explosion-proof electrical / ventilating / lighting /.../ equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P260: Do not breathe dust / fumes / gas / mist / vapors / spray.
- P261: Avoid breathing dust / fumes / gas / mist / vapors / spray.
- P263: Avoid contact during pregnancy / while nursing.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P271: Use only outdoors or in a well - ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves / protective clothing / eye protection / face protection.
- P281: Use personal protection equipment as required.
- P301+310: IF +3676:3700SWALLOWED: 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.
- 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.
- P363: Wash contaminated clothing before reuse.
- P370+378: In case of fire: Use ... to extinguish.
- P403+233: Store in a well ventilated place. Keep container tightly closed.
- P403+235: Store in a well ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents / containers in accordance with local / regional / national / international regulations

SUPPLEMENTAL LABEL ELEMENTS:

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

Irritating to the mucous membranes and may cause the skin to become sensitized.

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

Emits toxic fumes when heated.

HAZARDS NOT OTHERWISE CLASSIFIED:

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

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

In the event of sanding, grinding, or abrading:

H372 Causes damage to organs through prolonged or repeated exposure.

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Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family : Mixture of organic compounds

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

% BY WEIGHT IN PRODUCT-	HAZARDOUS INGREDIENT	CAS#-
<50%	fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine	68082-29-1 /
Skin Corrosion / Irritation (Category 2)		112-24-3
Serious Eye Damage / Eye Irritation (Category 1)		
Skin Sensitization (Category 1A)		
Aquatic Hazard (Acute) - (Category 2)		
Aquatic Hazard (Long Term) - (Category 2)		
<40%	1,2-ETHANEDIAMINE N1,N2-BIS (2-AMINOETHYL)	90640-67-8
Skin Corrosion / Irritation (Category 1B)		
Serious Eye Damage / Eye Irritation (Category 1)		
Skin Sensitization (Category 1A)		
Aquatic Hazard (Acute) - (Category 2)		
Aquatic Hazard (Long Term) - (Category 2)		
<15%	2-PROPANOL	67-63-0
OSHA HAZARDS: FLAMMABLE LIQUIDS,TARGET ORGAN EFFECT,IRRITANT		
FLAMMABLE LIQUIDS (CATEGORY2)		
SKIN IRRITATION (CATEGORY3)		
EYE IRRITATION (CATEGORY 2A)		
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE (CATEGORY3)		
ACUTE TOXICITY ORAL (CATEGORY 5)		
<u>OTHER HAZARDS THAT DO NOT RESULT IN CLASSIFICATION: MAY FORM EXPLOSIVE PEROXIDES</u>		
<5%	Bisphenol A Epoxy Resin (Epichlorohydrin Based)	25036-25-3
MAY CAUSE AN ALLERGIC SKIN REACTION - H317		
CAUSES SERIOUS EYE IRRITATION - H319		
<20%	Butanol	71-36-3
HARMFUL IF SWALLOWED - H302		
CAUSES SKIN IRRITATION - H315		
FLAMMABLE LIQUID AND VAPOR - H226		
MAY CAUSE RESPIRATORY IRRITATION - H335		
MAY CAUSE DROWSINESS OR DIZZINESS - H336		
CAUSES SERIOUS EYE DAMAGE - H318		
<20%	Toluene	108-88-3
CAUSES SKIN IRRITATION - H315		
HIGHLY FLAMMABLE LIQUID AND VAPOR - H225		
SUSPECTED OF DAMAGING THE UNBORN CHILD - H361d		
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373		
MAY CAUSE DROWSINESS OR DIZZINESS - H336		
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304		
CAUSES SERIOUS EYE IRRITATION - H319		

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Section -4. FIRST-AID MEASURES

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

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

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

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

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

May be fatal if swallowed or vomited and enters lungs and/or airways. Never give anything by mouth to an unconscious person.

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.

Emits toxic fumes when heated.

HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

- Carbon Dioxide
- Carbon Monoxide
- Halogenated Compounds
- Airborne Solids
- Sulfur Oxides
- Nitrogen Oxides
- Nitrogen Oxides can react with water vapors to form corrosive nitric acid
- Unidentified Organic Compounds
- Toxic Fumes
- Smoke
- Phenolic Compounds
- Toxic Compounds
- Other Hazardous Materials
- Carbon Oxides

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.

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.

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

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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)

OSHA	PRODUCT	ACGIH
400 ppm	2-PROPANOL	200 ppm
200 ppm	Toluene	20 ppm
100 ppm	Butanol	20 ppm

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OSHA	PRODUCT	ACGIH
15mg/m ³ (TWA)	Aluminum Oxide	TWA: 1mg/m ³ (Respirable Fraction)
15mg/m ³ (TWA)	Titanium Dioxide	10 mg/m ³ (TWA)
15mg/m ³ (TWA) TOTAL DUST 5 mg/m ³ RESPIRABLE	Silica	10 mg/m ³ TWA INHALABLE 3 mg/m ³ (RESPIRABLE) TWA
0.8mg/m ³ TWA	Amorphous Silica	N/A

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

- | | |
|---|--|
| <ul style="list-style-type: none"> • Physical state at: 68 ° F (20 ° C) Liquid • Flash point: 55 ° F Method: TCC • Specific gravity at: 68 ° F (20 ° C) N/A • Vapor Density: N/A • Lower Explosive Limit (% vol.): UNKNOWN • Upper Explosive Limit (% vol.): UNKNOWN • Miscibility in water at 20 ° C: SLIGHT • VOC : N/A | <ul style="list-style-type: none"> • Ph : N/A • % Volatile by Volume: N/A • Vapor pressure at: 68 ° F (20 ° C) N/A • Color: OFF WHITE • Appearance: liquid • Odor: SWEETLY AROMATIC ODOR • Boiling Point: N/A • Material Supports Combustion : Yes |
|---|--|

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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 :

HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:

- Carbon Dioxide
- Carbon Monoxide
- Halogenated Compounds
- Airborne Solids
- Sulfur Oxides
- Nitrogen Oxides
- Nitrogen Oxides can react with water vapors to form corrosive nitric acid
- Unidentified Organic Compounds
 - Toxic Fumes
 - Smoke
 - Phenolic Compounds
 - Other Hazardous Materials
- Carbon Oxides

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.

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

ACUTE TOXICITY:

ENDPOINT	SPECIES	PRODUCT	DOSE	EXPOSURE
fatty Acids, C18-unsatd., Dimers, Oligomeric Reaction Products with Tall-Oil Fatty Acids and Triethylenetetramine				
LD50 ORAL	Rat		1761.2 mg/kg	-
2-PROPANOL				
LC50	Rat		12000 ppm	-
LD50 ORAL	Rat		4710 mg/kg	-
LD50 ORAL	Mouse		3600	-
LD50 Dermal	Rabbit		12870 mg/kg	-
Toluene				
LD50 ORAL	Rat		2600mg/kg	-
LD50 Dermal	Rabbit		12000 mg/kg	-
LC50 Inhalation Vapor	Rat		12.5 mg/l	4 hour

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ENDPOINT	SPECIES	PRODUCT	DOSE	EXPOSURE
		Butanol		
LD50 ORAL	Rat		700 mg/kg	-
LD50 ORAL	Rat		790 mg/kg	-
LD50 Dermal	Rabbit		3400 mg/kg	-
LD50 Dermal	Rabbit		3402 mg/kg	-

CORROSION / IRRITATION

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

- Extremely corrosive and destructive to tissue
May cause irreversible eye damage

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

Causes Severe skin burns and eye damage

2-PROPANOL

- Causes mild skin irritation
Causes serious eye irritation
Slightly irritating to respiratory system

Sensitizer:

PRODUCT:

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

- Causes Sensitization

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

Causes Sensitization

SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

2-PROPANOL

- May cause drowsiness or dizziness

TARGET ORGANS: BRAIN, BLOOD, KIDNEYS, LUNGS, REPRODUCTIVE SYSTEM, LIVER, HEART, PERIPHERAL NERVOUS SYSTEM, GASTROINTESTINAL TRACT, UPPER RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, NERVOUS SYSTEM, EYE, LENS AND/OR CORNEA

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304
 HARMFUL IF SWALLOWED - H302
 HARMFUL IF INHALED - H332
 SUSPECTED OF CAUSING CANCER - H351
 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE - H314
 MAY CAUSE AN ALLERGIC SKIN REACTION - H317
 SUSPECTED OF CAUSING GENETIC DEFECTS - H341
 SUSPECTED OF DAMAGING FERTILITY. SUSPECTED OF DAMAGING THE UNBORN CHILD - H361fd
 MAY CAUSE DROWSINESS OR DIZZINESS - H336
 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373
 MAY CAUSE HARM TO BREAST-FED CHILDREN - H362

ASPIRATION HAZARD :

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS

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	Dosage	Species	Exposure
Toluene	LC50	6.26-8.4 mg/l	Rainbow Trout	24 hours
	LC50	6.97-8.62 mg/l	Salmon	24 hours
	LC50	7.45-8.75 mg/l	Salmon	24 hours
	LC50	80 mg/l	Medaka	24 hours
Butanol	EC50	500 mg/L	Desmodesmus Subspicatus	96 Hours
	EC50	500 mg/L	Desmodesmus Subspicatus	72 Hours
	EC50	1983 mg/L	Daphnia Magna	48 Hours
	EC50 Static	1897-2072 mg/L	Daphnia Magna	48 Hours
Triethylenetetramine	LC50 Static	330mg/l	Pimephales Promelas	96 Hours
	EC50	31.1 mg/l	Daphnia Magna	48 Hours
	ErC50	20 mg/l	Algae	72 Hours
	EC10	1.9 mg/l	Daphnia Magna	21 Days
	EC50 Static	800mg/l	Bacteria	0.5 HOURS

Bioaccumulative Potential :

Product / Ingredient	LogP(ow)	BCF	Potential
Butanone	.29	-	low
Bisphenol A Epoxy Resin	3.242	31	low
Toluene	Partition Coefficient - 2.65		
Butanol	Partition Coefficient - 0.785		
Triethylenetetramine	-2.65		

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PERSISTENCE AND DEGRADABILITY:
PERSISTENCE AND DEGRADABILITY:

TEST	PRODUCT PERIOD	RESULT
301D	Triethylenetetramine 162 Days	0%

Mobility in Soil : Not Available

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.
 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: 1263
Proper Shipping Name: Paint Related Material
Labels: Flammable Liquid

IATA:
 UN Number: 1263
 Proper Shipping Name: Paint Related Material
 Labels: Flammable Liquid
 Hazard Class: 3 Subclass: NO
 Packaging Group: II
 Passenger Air Packing Instruction : 355
 Passenger aircraft: 60 Liter (16 gallon)
 Cargo Air Packing Instruction : 366
 Cargo aircraft only: 220 Liter (58 gallon)

Hazard Class: 3 Subclass: NO
 Packaging Group: II
 Limited Quantity: Passenger aircraft: 10 Liter (2.64 Gallons)
 Cargo aircraft only: 220 Liter (58 gallon)
 Vessel stowage: A
 ERG: 128
 NMFC 4620 sub.5-CL.60
 Schedule B # 3506.91.0000

IMDG:
 UN Number: 1263
 Proper Shipping Name: Paint Related Material
 Label: 3
 Hazard Class: 3 Subclass: NO
 Packaging Group: II
 EMS No: F, E – S, D

15. REGULATORY INFORMATION

US Regulations Federal

chemical (s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 (SARA)	Chemical Name	CAS No	Weight %	Threshold limit (Reporting Value)
	Isopropyl Alcohol	67-63-0	<10%	unknown
	TOLUENE	108-88-3	<20%	unknown
	BUTANOL	71-36-3	<20%	unknown

SARA notifications must remain attached to this SDS. Any copies and /or distribution of this SDS must include all SARA notifications.

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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

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

US Regulations State

Toluene	108-88-3	California Proposition 65 (RTK) - Listed (Developmental Female)
		New Jersey (RTK) - Listed
		Massachusetts (RTK) - Listed
		Pennsylvania (RTK) - Listed
Butanol	71-36-3	New Jersey (RTK) - Listed
		Massachusetts (RTK) - Listed
		Pennsylvania (RTK) - Listed
		Rhode Island (RTK) - Listed

California Prop. 65 : Warning

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

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

Listed National Pollutant Release Inventory (NPRI):

Isopropyl Alcohol

TOLUENE

BUTANOL

Bisphenol A Epoxy Resin

Triethylenetetramine

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.

16. OTHER INFORMATION

HEALTH	3
FLAMMABILITY	3
REACTIVITY	0

HEALTH	3
FLAMMABILITY	3
REACTIVITY	0

Customer and / or end user is responsible for determining PPE

NFPA**HMIS**

Preparer:

Flamemaster / Compliance

Revision Date: 10/31/19

Containers:

plastic jars, metal cans
cartridge kits

Limited Quantity

See SDS Section 14

Maximum container size 50 Gallons / 190 Liters

Notice to reader:

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

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

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

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

End of Safety Data Sheet