

SAFETY DATA SHEET AUGUST 14, 2019

File: CS3100A GSA 7-10
Potting Compound/ Base

Pacoima, CA 91331 - USA

Section -1. CHEMICAL PRODUCT AND COMPANY IDENTI	IFICATION
1.1. Product Identifier: CS-3100 PT A BASE (ALL	TYPES AND CLASSES)
- Product Name: Potting Compound / Base comp	bound Part-A
- Product reference: CS-3100 PT A BASE Compo	und
1.2. Product Use:	
- Electrical Potting Compound	
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:	Emergency Contact Information :
Flamemaster Corp.	See Below
Tel: 818-890-1401	
Fax: 818-890-6001	

Specification	MIL-PRF-8516G		Base PT	A ALL TYPE	S&CLASSES
NSN:	CS3100 TY1 CL1-60ZCART	CS3100TY1CL1-QT. KIT	CS3100TY1CL2QT. KIT	CS3100TY1CL3GAL.KIT	CS3100TY2CL1 2.5 OZCART
14214:	8030-00-181-7884	8030-00-631-8013	8030-00-148-7362	8030-01-175-3479	8030-00-881-2618
	CS3100TY2CL1 6OZ CART	CS3100TY2CL1 QT. KIT	CS3100TY2CL1 GAL. KIT	CS3100TY2CL1 PT. KIT	CS3100TY2CL3 1/2 PT KIT
	8030-00-200-8341	8030-00-881-5238	8030-00-823-7953	8030-01-805-9875	8030-00-616-7696
	CS3100TY2CL2 1/2 PT	CS3100TY2CL2 QT KIT	CS3100TY2CL2 GAL.KIT	CS3100TY2CL2 6OZ CART.	
- 51	8030-00-297-6677	8030-00-174-2597	8030-00-286-9035	8030-01-383-4992	
	CS3100TY2CL3 QT. KIT	CS3100TY2CL3 1/2 GAL. KIT	CS3100TY2CL2 1/2 PT. KIT		
	8030-00-684-8790	8030-00-515-2271	5970-00-814-0394		

Emergency Contact:

CHEMTEL: WWW.CHEMTELINC.COM

Flamemaster Corporation Contract Number MIS2644301

www.flamemaster.com

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 LIQUIDS - CATEGORY 2
ASPIRATION HAZARD - CATEGORY 1
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION (UNBORN CHILD) - Category 2
REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION
AQUATIC, CHRONIC - CATEGORY 3

GHS LABEL REQUIREMENTS HAZARD PICTOGRAMS







SIGNAL WORD: DANGER

HAZARD STATEMENTS:

HIGHLY FLAMMABLE LIQUID AND VAPORS - (H225)
MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS - H304
CAUSES SERIOUS EYE IRRITATION - (H319)
CAUSES SKIN IRRITATION - (H315)
SUSPECTED OF DAMAGING THE UNBORN CHILD - (H361d)
SUSPECTED OF CAUSING CANCER - (H351)

MAY CAUSE HARM TO BREAST-FED CHILDREN - H362 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS - H412

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.

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 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)

GHS CLASSIFICATION:LIQUID 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)

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): TOLUENE

FLAMMABLE LIQUIDS (CATEGORY 2), H225

SKIN IRRITATION (CATEGORY 2), H315

REPRODUCTIVE TOXICITY (CATEGORY 2), H361

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3), CENTRAL NERVOUS SYSTEM, H336

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE (CATEGORY 2), H373

ASPIRATION HAZARD (CATEGORY 1). H304

ACUTE AQUATIC TOXICITY (CATEGORY 2), H401

Bisphenol A- Epoxy Resin with Toluene

FLAMMABLE LIQUIDS - CATEGORY 2

SKIN CORROSION/IRRITATION - CATEGORY 2

SERIOUS EYE DAMAGE/EYE IRRITATION - CATEGORY 2A

SKIN SENSITIZATION - CATEGORY 1

TOXIC TO REPRODUCTION (UNBORN CHILD) - CATEGORY 2

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

AQUATIC HAZARD (ACUTE) - CATEGORY 2

AQUATIC HAZARD (LONG TERM) - CATEGORY 3

SUBSTANCE	H&P STATEMENTS	CAS	EINECS/ELINCS
% by weight in the product			,
LIQUID POLYMER < 70%	H319,H335,H315,H412,H225,	N/A	POLYMER
	P210,P270,P305+P351+P338		
	+P313,P306+P361,P370+P260		
LIQUID POLYMER < 70%	H319,H335,H315,H412,H225,	N/A	DOLVMED
	P210,P270,P305+P351+P338	N/A	POLYMER
	+P313,P306+P361,P370+P260		
OLUENE (Methylbenzene) < 2%	H225,H304,H315,H319,H332,H336,	108-88-3	203-625-9
	H361,H371,H401, P210P260,P281,P301+P310,P305+ P351+ P338,P331		1 200 020 3
Bisphenol A- Epoxy Resin with Toluene <3%	H225, H319, H315, H317, H361d,	N/A	N/A
	H336, H400, H412		

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: Remove any contact lenses if present and easy to do. Irrigate with clean, fresh water for at least 15 minutes, holding the eye lids 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, 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.

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.

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

- Carbon Monoxide
- Sulfur Oxides
- Carbon Dioxide
- Formaldehyde
- Barium Oxide

- Halogenated Compounds
- Oxides of Carbon, Nitrogen, Sulfur Dioxide, Trace Hydrogen Sulfide
- Metal Oxide / Oxides
- Smoke
- Zinc/Zinc 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.

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.

Section -7. HANDLING AND STORAGE

7.1 Handling:

No smoking, eating and drinking during handling. Wash hands and face before eating, drinking, or smoking. 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 li	imits (8	hour)
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Substance	OSHA	ACGIH TWA
LIQUID POLYMER *	Not known	Not known
LIQUID POLYMER *	Not known	Not known
TOLUENE (Methylbenzene)*	200 ppm	20 ppm
BARIUM SULFATE *	5.00 mg/m ³	5 mg/m ³
* 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

• Physical state at: 68 º F (20 º C) Liquid

• Flash point: 130 ° F (54 ° C) Method: TCC

• Specific gravity at: 68 ° F (20 ° C) N/A

· Vapor Density: NIL

• Lower Explosive Limit (% vol.): N/A

• Upper Explosive Limit '(% vol.): N/A

• Miscibility in water at 20 º C: NEGLIGIBLE

VOC: N/A

• Ph : N/A

• Volatile by VOLUME: N/A

• Vapor pressure at: 68 º F (20 º C) NIL

· Color: White

Appearance: PASTE

• Odor: Polysulfide Odor

Boiling Point: Unknown

• Material Supports Combustion: Yes

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see SDS section 7).

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

Carbon Monoxide

Halogenated Compounds

Sulfur Oxides

• Oxides of Carbon, Nitrogen, Sulfur Dioxide, Trace Hydrogen Sulfide

Carbon Dioxide

Metal Oxide / Oxides

Formaldehyde

Smoke

• Barium Oxide

Zinc/Zinc 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.

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

Formaldehyde is released during curing.

ACUTE TOXICITY:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
Talasas	165011111111111111111111111111111111111			
Toluene	LC50 Inhalation Vapor	Rat	49 g/m^3	4 Hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 Hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 ORAL	Rat	636 mg/kg	-
Bisphenol A- Epoxy Resin	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 ORAL	Rat	>2000 mg/kg	-
ZINC SULPHIDE	LD50 ORAL	Rat	>2000 mg/kg	-
	LD50 DERMAL	Rat	>2000 mg/kg	-

CAUSES SERIOUS EYE IRRITATION

CAUSES SKIN IRRITATION

SUSPECTED OF DAMAGING THE UNBORN CHILD

SUSPECTED OF CAUSING CANCER

May cause damage to organs through prolonged or repeated exposure.

CARCINOGENICITY:

INGREDIENT	IARC	OSHA	NTP	CAS#
TOLUENE :	3	-	=	108-88-3

SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

LIQUID POLYMER - CATEGORY 3 LIQUID POLYMER - CATEGORY 3 TOLUENE - CATEGORY 3

SPECIFIC TARGET ORGAN TOXICITY-STOT (REPEATED EXPOSURE)

TOLUENE - CATEGORY 2

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.

ASPIRATION HAZARD:

TOLUENE - CATEGORY 1

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)

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.

Toxicity:

Product / Ingredient	Result	Species	Exposure	
Zinc Sulphide	LC50	Pimephales Promelas (Fathead minnow) - 1826 mg/l - 96 hours	

Persistance and Degradability:

T CT313tdTICC dTIG DCGTdGdDIIII	.у .			
Product / Ingredient	Aquatic Half Life	Photolysis	Biodegradability	\neg
Toluene	12	# · ·	Readily (5 days - 81 %)	- 1
bisphenol A - epoxy resins	<u> </u>	3	Not Readily Biodegradeable (28 days - 5%)	

Bioaccumulative Potential:

Product / Ingredient	LogP(ow)	BCF	Potential	
Toluene	2.73	8.32	low	
bisphenol A - epoxy resins	<u> </u>	31	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 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: 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 requirements of section 313 of Title III and of 40 CFR 372 (SARA)	Chemical Name	CAS No	Weight %	Threshold limit (Reporting Value)
	TOLUENE	108-88-3	<2%	unknown
	(Methylbenzene)			
	LIQUID POLYMER	N/A	<70%	unknown
	LIQUID POLYMER	N/A	<70%	unknown
SARA potifications must a mile	ZINC SULPHIDE	1314-98-3	<25%	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		1	<2%	!
(Developmental – Female)	TOLUENE	108-88-3	\2/0	>= 1.0%
Massachusetts	TOLUENE	108-88-3	<2%	>= 1.0%
New Jersey	TOLUENE	108-88-3	<2%	>= 1.0%
Pennsylvania	TOLUENE	108-88-3	<2%	>= 1.0%
Rhode Island	TOLUENE	108-88-3	<2%	>= 1.0%
California Proposition 65	LIQUID POLYMER	N/A	<70%	
(Developmental – Female)				>= 1.0%
Massachusetts	LIQUID POLYMER	N/A	<70%	>= 1.0%
New Jersey	LIQUID POLYMER	N/A	<70%	>= 1.0%
Pennsylvania	LIQUID POLYMER	N/A	<70%	>= 1.0%
Rhode Island	LIQUID POLYMER	N/A	<70%	>= 1.0%
California Proposition 65	LIQUID POLYMER	N/A	<70%	
(Developmental – Female)				>= 1.0%
Massachusetts	LIQUID POLYMER	N/A	<70%	>= 1.0%
New Jersey	LIQUID POLYMER	N/A	<70%	>= 1.0%
Pennsylvania	LIQUID POLYMER	N/A	<70%	>= 1.0%
Rhode Island	LIQUID POLYMER	N/A	<70%	>= 1.0%
New Jersey	ZINC SULPHIDE	1314-98-3	<25%	>= 1.0%
Pennsylvania	ZINC SULPHIDE	1314-98-3	<25%	>= 1.0%
Massachusetts	BARIUM SULPHATE	7727-43-7	<25%	>= 1.0%
New Jersey	BARIUM SULPHATE	7727-43-7	<25%	>= 1.0%
Pennsylvania	BARIUM SULPHATE	7727-43-7	<25%	>= 1.0%

United States: Sara 302/304 (Sara 304 RQ): Not Applicable

Information On Ingredients: None Were Found

Sara 311/312 HAZARDS

Classification: Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

Information On Ingredients:

Liquid Polymer: Immediate (acute) Health Hazard **Liquid Polymer:** Immediate (acute) Health Hazard

Toluene: Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

Barium Sulphate: Chronic Health Hazard
Sudden Release Of Pressure: No Products

Reactivity: No Products

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):

TOLUENE CAS:108-88-3 Liquid Polymer cas# N/A Liquid Polymer cas# N/A

16. OTHER INFORMATION

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

HEALTH	2	_
FLAMMABILITY	3	
REACTIVITY	0	

* Customer and / or end user is responsible for determining Personal Protection Equipment

NFPA

HMIS

Preparer:	Flamemaster / Compliance	Revision Date: 08/14/2019	Conversion to ANSI format
	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



SAFETY DATA SHEET AUGUST 14, 2019

File: CS3100PT B GSA 07-10 Potting Compound-Catalyst

13576 Desmond Street

Pacoima, CA 91331 - USA

Section -1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- 1.1. Product Identifier: CS-3100 PT B CATALYST (ALL TYPES AND CLASSES)
- Product -Electrical Potting Compound
- Product reference: CS-3100-B

1.2. Product Use:

- POTTING 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 **Emergency Contact Information:**

See Below

Specification: MIL-PRF-8516G

CATALYST

ALL CLASSES AND TYPES

				, ,== 0=, ,00	20 / 1110 1 11 20
NSN:	8030-00-181-7884	8030-00-631-8013	8030-00-148-7362	8030-01-175-3479	8030-00-881-2618
INDIN.	CS3100TY1CL1 6OZ CAR	CS3100TY1CL1 QT KIT	CS3100TY1CL2 QT. KIT	CS3100TY1CL3 GAL KIT	CS3100TY2CL1 2.5 OZ
	8030-00-200-8341	8030-00-881-5238	8030-00-823-7953	8030-01-805-9875	8030-00-616-7696
	CS3100TY2CL1 6OZ	CS3100TY2CL1 QT. KIT	CS3100TY2CL1GAL KIT	CS3100TY2CL1PT KIT	CS3100TY2CL3 1/2 PT
	8030-00-297-6677	8030-00-174-2597	8030-00-286-9035	8030-01-383-4992	
	CS3100TY2CL2 1/2 PT	CS3100TY2CL2 QT KIT	CS3100TY2CL2GAL KIT	CS3100TY2 CL2 60Z	
	8030-00-684-8790	8030-00-515-2271	8030-00-814-0394		
	CS3100TY2CL3 QT KIT	CS3100TY2 CL3 1/2 GAL	CS3100TY2CL2 1/2 PT		

CS3100

Emergency Contact:

CHEMTEL: WWW.CHEMTELINC.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

ASPIRATION HAZARD - CATEGORY 1

ACUTE TOXICITY (ORAL) 4, H302

ACUTE TOXICITY (INHALATION) 4, H332

SKIN CORROSION/IRRITATION - Category 2, H315

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2, H319

SKIN SENSITIZATION 1, H317

CARCINOGENICITY 1B, H350

TOXIC TO REPRODUCTION (FERTILITY) 2, H361f

REPRODUCTIVE TOXICITY 1A, H360

SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373

REPRODUCTIVE TOXICITY, EFFECTS ON OR VIA LACTATION

ACUTE AQUATIC TOXICITY 1, H400

CHRONIC AQUATIC TOXICITY 1, H410

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 - H304
MAY CAUSE AN ALLERGIC SKIN REACTION - H317
MAY CAUSE CANCER - H350
HARMFUL IF SWALLOWED - H302
HARMFUL IF INHALED - H332
CAUSES SKIN IRRITATION - H315

CAUSES SERIOUS EYE IRRITATION - H319

SUSPECTED OF DAMAGING FERTILITY - H361f

MAY DAMAGE FERTILITY OR THE UNBORN CHILD - H360

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - H373

MAY CAUSE HARM TO BREAST-FED CHILDREN - H362

VERY TOXIC TO AQUATIC LIFE - H400

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS - H410

HAZARD PICTOGRAMS:







SIGNAL WORD:

DANGER

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.

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SPECIFIC PRECAUTIONARY STATEMENTS ASSOCIATED WITH THIS PRODUCT:

- 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.
- 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 SWALLOWED: Immediately call a POISON CENTER / doctor / ...
- P301+312: IF SWALLOWED: Call a POISON CENTER / doctor / .../ if you feel unwell.
- P302+352: IF ON SKIN: Wash with plenty of water / ...
- P304+340: IF INHALED: 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 docontinue rinsing.
- P308+313: If exposed: Call a POISON CENTER or doctor / physician.
- 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.
- P332+313: If skin irritation occurs: Get medical advice / attention.
- P333+313: If skin irritation or a rash occurs: Get medical advice / attention.
- P337+313: If eye irritation persists: Get medical advice / attention.
- P362: Take off all contaminated clothing.
- P363: Wash contaminated clothing before reuse.
- P391: Collect spillage.
- P405: Store locked up.
- P501: Dispose of contents / containers in accordance with local / regional / national / international regulations

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 compounds

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

LEAD DIOXIDE

CAS#1309-60-0

EC#215-174-5

70-80% by weight

OSHA HAZARDS: OXIDIZER, CARCINOGEN, TARGET ORGAN EFFECT, TOXIC BY INHALATION, HARMFUL BY INGESTION

TERATOGEN, REPRODUCTIVE HAZARD

TARGET ORGANS: FEMALE REPRODUCTIVE SYSTEM, MALE REPRODUCTIVE SYSTEM, NERVES, BLOOD, KIDNEY

GHS CLASSIFICATION: LEAD DIOXIDE OXIDIZING SOLIDS (CATEGORY 3), H272

ACUTE TOXICITY, ORAL (CATEGORY 4), H302

ACUTE TOXICITY, INHALATION (CATEGORY 4), H332

CARCINOGENICITY (CATEGORY 1B), H350

REPRODUCTIVE TOXICITY (CATEGORY 1A), H360

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE (CATEGORY 2), H373

ACUTE AQUATIC TOXICITY (CATEGORY 1), H400

CHRONIC AQUATIC TOXICITY (CATEGORY 1), H410

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LEAD OXIDE

CAS#1317-36-8

EC# 215-267-0

<10% by weight

OSHA HAZARDS: CARCINOGEN, TARGET ORGAN EFFECT, TOXIC BY INHALATION, HARMFUL BY INGESTION

TERATOGEN, REPRODUCTIVE HAZARD

TARGET ORGANS: BLOOD, KIDNEY, NERVES, GASTROINTESTINAL TRACT, REPRODUCTIVE SYSTEM

GHS CLASSIFICATION: LEAD OXIDE

ACUTE TOXICITY, INHALATION (CATEGORY 4), H332

ACUTE TOXICITY, ORAL (CATEGORY 4), H302

CARCINOGENICITY, (ORAL), (CATEGORY 2), H351

REPRODUCTIVE TOXICITY (CATEGORY 1A), H360

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE (CATEGORY 2), H373

ACUTE AQUATIC TOXICITY (CATEGORY 1), H400

CHRONIC AQUATIC TOXICITY (CATEGORY 1), H410

Lead Oxide is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

CHEMICAL NAME: TERPHENYL, HYDROGENATED

CAS# 61788-32-7

EC# 262-967-7

<50% by weight

AQUATIC CHRONIC (CATEGORY 4) - H413

CHEMICAL NAME: TERPHENYL

CAS# 26140-60-3

EC# 247-477-3

<10% by weight

AQUATIC ACUTE (CATEGORY 1) - H400 AQUATIC CHRONIC (CATEGORY 1) - H410

CHEMICAL NAME: POLYPHENYL, QUATER AND HIGHER

CAS# 68956-74-1

<10% 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.

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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.

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 BUT MAY NOT BE LIMITED TO THE FOLLOWING:

Carbon monoxide

Oxides of nitrogen

• Smoke

Sulfur oxides

Metal Oxide / Oxides

Carbon Dioxide

Lead Oxides

Emits toxic fumes when heated.

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.

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

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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
Lead Dioxide	TWA: 0.05 mg/m3
Lead oxide	TWA: 0.05 mg/m3
Terphenyl, Hydrogenated	TWA: 4.9 mg/m³ 8 hours
	TWA: 0.5 ppm 8 hours
Terphenyl	C: 5mg/m³
	C: 0.53 ppm
Zinc Stearate	10.00mg/m3

8.3 Personal protection

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

Respiratory protection:

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

Hand protection:

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

Eye protection:

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

Skin protection:

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

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9. PHYSICAL AND CHEMICAL PROPERTIES

• Physical state at: 68 ° F (20 ° C) Liquid • Flash point: 200 ° F (93 ° C) Method: TCC

Color: BROWNAppearance: PASTE

• Odor: NEGLIGIBLE OILY ODOR

• Odor Threshold: Data Not Available for Mixture

• pH : Data Not Available for Mixture

• Melting Point / Freezing Point : Data Not Available for Mixture

• Initial Boiling Point and Boiling Range : Data Not Available for Mixture

• Evaporation Rate: Data Not Available for Mixture

• Flammability (solid, gas): Data Not Available for Mixture

• Upper / Lower Flammability or Explosive Limits : Data Not Available for Mixture

• Vapor Pressure : Data Not available for Mixture

• Vapor Density : Data Not Available for Mixture

• Relative Density: Data Not Available For Mixture

• Solubility (ies): Data Not Available for Mixture

• Partition Coefficient : n-octanol / water : Data Not Available for Mixture

• Auto-ignition Temperature : Data Not Available for Mixture

• Decomposition Temperature : Data Not Available for Mixture

· Viscosity: Data Not Available for Mixture

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see SDS section 7).

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

Carbon monoxide

Oxides of nitrogen

Smoke

Sulfur oxides

Metal Oxide / Oxides

Carbon Dioxide

Lead Oxides

Emits toxic fumes when heated.

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.

Reactivity: Data Not Available for Mixture

Chemical Stability: Data Not Available for Mixture

Possibility of Hazardous Reactions: Data Not Available for Mixture

Conditions to Avoid: Data Not Available for Mixture Incompatible Materials: Data Not Available for Mixture

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
Lead Dioxide	No Data Available			
	LD50 Intraperitoneal	Guinea Pig	220mg/kg	-
Lead Oxide	No Data Available			
Terphenyl,Hydrogenated	LD50 ORAL	Rat	17500 mg/kg	
Terphenyl	LD50 Oral	Rat	>1400 mg/kg	

Skin Corrosion / Irritation

Lead Oxide - Rabbit - Mild Skin Irritation - 24Hours

Serious Eye Damage / Eye Irritation

Lead Oxide - Rabbit - No Eye Irritation

Germ Cell Mutagenicity

Lead Oxide - Hamster - Embryo - Morphological Transformation

CARCINOGENICITY:

INGREDIENT	IARC	OSHA	NTP
Lead Dioxide	2A	Specifically Regulated Carcinogen	Reasonably Anticipated to be Human Carcinogen
Lead Oxide	2A	Specifically Regulated Carcinogen	Reasonably Anticipated to be Human Carcinogen

Reproductive Toxicity

Lead Dioxide:

May cause congenital malformation in fetus-Known human reproductive toxicant

Lead Oxide:

May cause congenital malformation in fetus-Known human reproductive toxicant.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Lead Oxide: May cause damage to organs through prolonged or repeated exposure. Lead Dioxide: May cause damage to organs through prolonged or repeated exposure

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OTHER INFORMATION CONCERNING LEAD SALTS:

Lead salts can cross the placenta and induce embryo- and feto- mortality. They also exhibit teratogenic effects in some animal species. Lead has been shown to exhibit adverse effects on human reproduction, embryonic and fetal development, and postnatal development.

Exposure to lead can affect the blood, nervous and digestive systems. Some of the symptoms of exposure include the following: anemia, neuromuscular dysfunction, paralysis, encephalopathy, joint and muscle pain, muscle weakness, headache, dizziness, abdominal pain, diarreah, constipation, nausea, vomiting, a blue line on the gums, insomnia, and a metallic taste. High levels of exposure produce increased cerebrospinal pressure, brain damage, and stupor which will lead to coma and death. Exposure to lead also produces anorexia and convulsions.

Lead Dioxide: Stomach-Irregularities - Based on human evidence Lead Oxide: Stomach-Irregularities - Based on human evidence

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
May Cause Cancer
May Damage Fertility or the Unborn Child
May Cause Damage to Organs Through Prolonged or Repeated Exposure
Avoid exposure during pregnancy/while nursing.

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

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.

Toxicity:

Product

Lead Oxide - LC 50 - Pimephales promelas (fathead minnow) - 0.298mg/l - 96 hours

Lead Oxide - EC 50 - Daphnia Magna (water flea) - 0.132 mg/l - 48 hours

Biodegradability:

Lead Dioxide - Not readily Biodegradable

Lead Oxide - No data available

Bioaccumulative Potential:

Product LogPow BCF Potential

No Data Available

TOXICITY: No Data Available for Finished Product

PERSISTANCE AND DEGRADABILITY: No Data Available for Finished Product

AQUATIC HALF LIFE: No Data Available for Finished Product PHOTOLYSIS: No Data Available for Finished Product

BIODEGRADABILITY: No Data Available for Finished Product

BIOACCUMULATIVE POTENTIAL: No Data Available for Finished Product

MOBILITY IN SOIL: No Data Available for Finished Product

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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.

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

14. TRANSPORT INFORMATION

DOT:

UN Number: 3082

UN PROPER SHIPPING NAME - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LEAD DIOXIDE, TERPHENYL)

TRANSPORT CLASS - 9
PACKING GROUP - III

ENVIRONMENTAL HAZARD- YES

MARINE POLLUTANT - Yes

IMDG

UN NUMBER - 3082

UN PROPER SHIPPING NAME - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LEAD DIOXIDE, TERPHENYL)

TRANSPORT CLASS - 9

PACKING GROUP - III

ENVIRONMENTAL HAZARDS - YES

MARINE POLLUTANT - Yes

IATA

UN NUMBER - 3082

UN PROPER SHIPPING NAME - ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LEAD DIOXIDE, TERPHENYL)

TRANSPORT CLASS - 9

PACKING GROUP - III

ENVIRONMENTAL HAZARDS - YES

MARINE POLLUTANT - N/A

Additional Information:

DOT:

Not regulated as hazardous material in sizes $\leq 5L$ or $\leq 5kg$,

as long as packaging meets the provisions of 173.24 and 173.24a

IMDG:

Not regulated as hazardous material in sizes $\leq 5L$ or $\leq 5kg$,

as long as packaging meets the provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

IATA:

Not regulated as hazardous material in sizes $\leq 5L$ or $\leq 5kg$,

as long as packaging meets the provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8

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15. REGULATORY INFORMATION

SARA 311/312

Composition of Ingredients:

Polyphenyls, quater and higher: Immediate (acute) health hazard

Terphenyl

: Immediate (acute) health hazard

Lead Dioxide: No Data Available

Lead Oxide : No Data Available

US Regulations Federal

,				
chemical (s) subject to the reportin	g Chemical Name	CAS No	Weight %	Threshold limit
requirements of section 313 of Title	ш		-	(Reporting Value)
and of 40 CFR 372 (SARA)			1	
	Lead Dioxide	1309-60-0	70-80%	Unknown
	Lead Oxide	1317-36-8	<10%	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	Land Diamida	1200 60 0	70.000/	4.00/	
(Developmental – Female)	Lead Dioxide	1309-60-0	70-80%	>= 1.0%	
Massachusetts	Lead Dioxide	1309-60-0	70-80%	>= 1.0%	
New Jersey	Lead Dioxide	1309-60-0	70-80%	>= 1.0%	
Pennsylvania	Lead Dioxide	1309-60-0	70-80%	>= 1.0%	
Rhode Island	Lead Dioxide	1309-60-0	70-80%	>= 1.0%	
California Proposition 65	Lead Oxide	1317-36-8	-1.00/	1.00/	
(Developmental – Female)	Lead Oxide	1317-30-0	<10%	>= 1.0%	
Massachusetts	Lead Oxide	1317-36-8	<10%	>= 1.0%	
New Jersey	Lead Oxide	1317-36-8	<10%	>= 1.0%	
Pennsylvania	Lead Oxide	1317-36-8	<10%	>= 1.0%	
Rhode Island	Lead Oxide	1317-36-8	<10%	>= 1.0%	

California Prop 65 Warning:

This product contains one or more ingredients 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): Lead Dioxide CAS#1309-60-0, Lead Oxide CAS#1317-36-8

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Section 16 Other Information

HEALTH	3	HEALTH	3
FLAMMABILITY	1	CHRONIC HEALTH HAZARD	*
REACTIVITY	1	FLAMMABILITY	1
		REACTIVITY	1

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

NFPA

HMIS

Preparer-Flamemaster/Compliance Revision Date - August 14, 2019

Containers: Plastic Jars, Metal Cans, Cartridge Kits

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

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.

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