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HEALTH

	HEALTH FLAMMABILIT PHYSICAL	2 Y 1 0		Printed: Revision:	07/07/2016 07/07/2016			
• •	PPE	X						
1. Product and Company Identification								
Product Code:	Epoxy. Com	#672A						
Product Name: Trade	Epoxy.com #	672 Conductiv	ve Part A (pigmented)					
Name: Manufacturer	Epoxy.com #	672 Conductiv	ve Part A (pigmented)					
Information								
Company Name:	Epoxy Syster 20774 W Per	ms, Inc. Insylvania Ave	9					
	Dunnellon, Fl	L 34431						
Phone Number:	+1 (352) 489	9-1666						
Emergency Contact:	PERS (USA)		(800) 633-	8253				
Alternate Emergency Contact:	PERS (Intern	ational)	(801) 629-	0667				
		rds Identi	, ,					
GHS Classification Skin Corrosion/Irritation, Category 2	Placard Exclamation point	Key word Warning	GHS hazard phrase Causes skin irritation					
Serious Eye Damage/Eye Irritation, Categor 2B	ry none	Warning	Causes eye irritation					
Skin Sensitization, Category 1B	Exclamation point	Warning	May cause an allergic skir	reaction				
Aquatic Toxicity (Acute), Category 2	none		Toxic to aquatic life					
Aquatic Toxicity (Chronic), Category 2	Pollution		Toxic to aquatic life with lo	ng lasting effect	S			
GHS Hazard Phrases H315 - Causes skin irritation.								
H320 - Causes eye irritation.								
H317 - May cause an allergic sk	cin reaction							
H401 - Toxic to aquatic life.								
H411 - Toxic to aquatic life wit	h long lasting ef	fects.						
GHS Precaution Phrases								
P280 - Wear protective gloves/p		ng/eye protect	ion/face protection.					
P261 - Avoid breathing dust/mi								
P262 - Do not get in eyes, on sl		-						
P362+364 - Take off contamina		wash it befor	e reuse.					
P273 - Avoid release to the envi	ironment.							
GHS Response Phrases P302+352 - IF ON SKIN: Wash	with plenty of	soan and wate	r P332+313 - If skin irritat	tion occurs a	et medical			
advice/attention.	i with picity of	soap and wate	1.1 <i>552</i> +515 - II SKIII IIIIda	non occurs, g	et metical			
P362 - Take off contaminated c	lothing.							
	P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present							
and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.								
P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable								
for breathing. P314 - Get medic	al attention/advi	ce if you feel	unwell.					
P301+330+331 - IF SWALLOV	P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER							

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER or doctor/physician.

P391 - Collect spillage.

GHS Storage and Disposal Phrases

P501 - Dispose of contents/container to local, state, and federal authority requirements.

Potential Health Effects (Acute and Chronic)

May cause eye irritation. May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material.

Inhalation

May cause respiratory irritation.

Skin Contact

May cause skin irritation. Allergic reactions are possible.

Eye Contact

Causes eye irritation.

Ingestion

May be harmful if swallowed.

Recommended Exposure Limits

Not established.

Medical Conditions Generally Aggravated By Exposure

Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

3. Composition/Information on Ingredients

На	zardous Components (Chemical Name)	CAS #	Concentration
1.	Bisphenol-a based epoxy resin	25068-38-6	45 - 60 %
2.	Iron oxide	1317-61-9	0 - 15 %
3.	Iron oxide (Fe2O3)	1309-37-1	0 - 15 %
4.	C.I. Pigment Yellow 42	51274-00-1	0 - 15 %
5.	Carbon black	1333-86-4	0 - 15 %
6.	Titanium dioxide	13463-67-7	0 - 15 %
7.	Talcum	14807-96-6	1.0 - 10 %
8.	(+-)-Propylene carbonate, Anhydrous	108-32-7	1.0 - 10 %
9.	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.).	68609-97-2	1.0 - 10 %
	derivs.		
10.	Quaternary ammonium compounds, coco alkylethyldimethyl, ethyl sulfates	68308-64-5	<3.0 %
11.	Antimony tin oxide complex	NA	1.0 - 10 %
	Silica		
12.		7631-86-9	
13.	Silica, amorphous treated	112945-52-5	1.0 - 10 %
		4. First	Aid Measures

Emergency and First Aid Procedures

In Case of Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.

In Case of Skin Contact

In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

In Case of Eye Contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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In Case of Ingestion

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting. For further assistance, contact your local Poison Control Center.

Signs and Symptoms Of Exposure

May cause skin, eye, and respiratory irritation. May cause allergic skin reaction.

	5. Fire Fighting Measures			
Flash Pt:	> 200.00 C Method Used: Pensky-Marten Closed Cup			
Explosive Limits:	LEL: NE UEL: NE			
Autoignition Pt:	No data available.			

Fire Fighting Instructions

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards

Product is not considered a fire hazard. Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

Hazardous Combustion Products

Hazardous decomposition products formed under fire conditions. Carbon dioxide, Carbon monoxide.

Suitable Extinguishing Media

Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

Do not use a direct water stream, which may spread fire.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.

Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

Protective Precautions, Protective Equipment and Emergency Procedures

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

7. Handling and Storage

Hazard Label Information:

Avoid contact with skin and eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.

Precautions To Be Taken in Handling

Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

Precautions To Be Taken in Storing

Keep container tightly closed in a dry and well-ventilated place.

Other Precautions

Wash thoroughly after handling.

8. Exposure Controls/Personal Protection						
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits		
1. Bisphenol-a based epoxy resin	25068-38-6	No data.	No data.	No data.		
2. Iron oxide	1317-61-9	No data.	No data.	No data.		

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	π01 Ζ	Conducti	veralea (pignene	cu)	Revision:	07/07/2016
На	zardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Ot	her Limits
3.	Iron oxide (Fe2O3)	1309-37-1	10 mg/m3	5 mg/m3 (dust & fume)) No	data.
4.	C.I. Pigment Yellow 42	51274-00-1	No data.	No data.	No	data.
5.	Carbon black	1333-86-4	3.5 mg/m3	3.5 mg/m3	No	data.
6.	Titanium dioxide	13463-67-7	15 (dust) mg/m3	10 mg/m3	No	data.
7.	Talcum	14807-96-6	706 ppm/20 mppcf	2 mg/m3 (non-asbesto	s) No	data.
8.	(+-)-Propylene carbonate, Anhydrous	108-32-7	No data.	No data.	No	data.
9.	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.).	68609-97-2	No data.	No data.	No	data.
	derivs.				110	data.
10.	Quaternary ammonium compounds, coco	68308-64-5	No data.	No data.	No	data.
	alkylethyldimethyl, ethyl sulfates					
11.	Antimony tin oxide complex	NA	No data.	No data.	No	data.
12.	Silica	7631-86-9	No data.	No data.	No	data.
13.	Silica, amorphous treated	112945-52-5	No data.	No data.	No	data.

Protective Equipment Summary - Hazard Label Information:

Neoprene gloves Safety glasses, or goggles. Impervious clothing. Chemical resistant boots

Respiratory Equipment (Specify Type)

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Eye Protection

Safety glasses, or goggles.

Protective Gloves

Nitrile rubber and Neoprene are recommended.

Other Protective Clothing

Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

Engineering Controls (Ventilation etc.)

Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

Work/Hygienic/Maintenance Practices

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

Environmental Exposure Controls

Avoid runoff into storm sewers and ditches which lead to waterways. May be hazardous to the environment if released in large quantities. 9 Physical and Chemical Properties

J.	r nysical and onennearr roperties
Physical States:	[]Gas [X]Liquid []Solid
Melting Point:	NE
Boiling Point:	NE
Decomposition Temperature:	NE
Autoignition Pt:	No data.
Flash Pt:	> 200.00 C Method Used: Pensky-Marten Closed Cup
Explosive Limits:	LEL: NE UEL: NE

GHS format

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#6	572 Conductive Part A (pigmented)	Printed:	07/07/2
Specific Gravity (Water = 1):	~ 1.355 - 1.39	Revision:	07/07/2
Density:	~ 11.3 - 11.6 LB/GL		
Vapor Pressure (vs. Air or mm Hg):	NE		
Vapor Density (vs. Air = 1):	NE		
Evaporation Rate:	NE		
Solubility in Water:	~		
Solubility Notes			
Practically insoluble.			
Percent Volatile:	0.0 % by volume.		
VOC / Volume:	NP		
HAP / Volume:	NP		
Saturated Vapor Concentration:	NE		
Appearance and Odor			
Slight odor.			
Appearance: Liquid. (various pig	mented colors)		
	10. Stability and Reactivity		
Stability:	Unstable [] Stable [X]		
Reactivity			
Avoid: acids, alkalis, oxidizing a	gents.		
Conditions To Avoid - Instability			
Extreme temperatures.			
Incompatibility - Materials To Avoid			
Avoid strong acids, bases, and ox			
Hazardous Decomposition Or Bypro	duce smoke, carbon monoxide, carbon dioxide.		
Possibility of Hazardous	Will occur [] Will not occur [X]		
Polymerization:			
Conditions To Avoid - Hazardous Re	eactions		
Will not undergo hazardous poly	merization in normal storage conditions.		
•	1. Toxicological Information		
Toxicological Information			
May cause sensitization by skin c	contact.		
Chronic Toxicological Effects			
Skin sensitization.			

Irritation or Corrosion

Skin Irritation. Irritating to eyes.

Symptoms related to Toxicological Characteristics

May cause redness, rash on skin.

Ha	zardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1.	Bisphenol-a based epoxy resin	25068-38-6	n.a.	n.a.	n.a.	n.a.
2.	Iron oxide	1317-61-9	n.a.	n.a.	n.a.	n.a.
3.	Iron oxide (Fe2O3)	1309-37-1	n.a.	3	A4	n.a.
4.	C.I. Pigment Yellow 42	51274-00-1	n.a.	n.a.	n.a.	n.a.
5.	Carbon black	1333-86-4	n.a.	2B	A4	n.a.

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	#672	-		A (pigmented)		Printed: Revision:	07/07/2016 07/07/2016
Ha	zardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA	
6.	Titanium dioxide	13463-67-7	n.a.	2B	A4	n.a.	
7.	Talcum	14807-96-6	n.a.	n.a.	n.a.	n.a.	
8.	(+-)-Propylene carbonate, Anhydrous	108-32-7	n.a.	n.a.	n.a.	n.a.	
9.	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.).	68609-97-2	n.a.	n.a.	n.a.	n.a.	
	derivs.						
10.	Quaternary ammonium compounds, coco	68308-64-5	n.a.	n.a.	n.a.	n.a.	
	alkylethyldimethyl, ethyl sulfates						
11.	Antimony tin oxide complex	NA	n.a.	n.a.	n.a.	n.a.	
12.	Silica	7631-86-9	Known	3	n.a.	n.a.	
13.	Silica, amorphous treated	112945-52-5	n.a.	n.a.	n.a.	n.a.	
	12. Ecological Information						

General Ecological Information

Avoid release to the environment. May be hazardous to the environment if released in large quantities.

Results of PBT and vPvB assessment

No data available.

Persistence and Degradability

Not readily biodegradable.

Bioaccumulative Potential

No data available.

Mobility in Soil

not reported, unknown.

13. Disposal Considerations

Waste Disposal Method

Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

14. Transport Information

LAND TRANSPORT (US DOT)	
DOT Proper Shipping Name	(Non-Bulk) Not Regulated.
	(Bulk) Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.
	NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.
DOT Hazard Class:	9
DOT Hazard Label:	CLASS 9
UN/NA Number:	UN3082
Packing Group:	III
Precautionary Label	Avoid skin and eye contact. May cause eye and skin irritation. May cause skin sensitization. Wear protective equipment and clothing. Always read MSDS/SDS before use.
AIR TRANSPORT (ICAO/IATA)	

#67 ICAO/IATA Shipping Name	SAFETY DATA SHEET 2 Conductive Part A (pigmented) (Non-Bulk) Not Regulated.	Printed: Revision:	07/07/2016 07/07/2016		
	Bulk) Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.				
	NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.				
UN Number:	3082				
Hazard Class:	9 - CLASS 9				
Packing Group:	III				
MARINE TRANSPORT (IMDG/IMO)					
IMDG/IMO Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin) MARINE POLLUTANT.				
	Note: The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. Shipment compliance is the responsibility of the person offering the product for transport.				
UN Number:	3082				
Hazard Class:	9 - CLASS 9				
Packing Group:	III				
IMDG MFAG Number:	FA,SF				
Marine Pollutant:	Yes				

15. Regulatory Information

Ha	zardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1.	Bisphenol-a based epoxy resin	25068-38-6	No	No	No	No
2.	Iron oxide	1317-61-9	No	No	No	No
3.	Iron oxide (Fe2O3)	1309-37-1	No	No	No	No
4.	C.I. Pigment Yellow 42	51274-00-1	No	No	No	No
5.	Carbon black	1333-86-4	No	No	No	No
6.	Titanium dioxide	13463-67-7	No	No	No	No
7.	Talcum	14807-96-6	No	No	No	No
8.	(+-)-Propylene carbonate, Anhydrous	108-32-7	No	No	No	No
9.	Oxirane, Mono.(.(C12-14-alkyloxy)methyl.). derivs.	68609-97-2	No	No	No	No
10.	Quaternary ammonium compounds, coco alkylethyldimethyl, ethyl sulfates	68308-64-5	No	No	No	No
11.	Antimony tin oxide complex	NA	No	No	No	No
12.	Silica	7631-86-9	No	No	No	No
13.	Silica, amorphous treated	112945-52-5	No	No	No	No

Regulatory Information

US EPA SARA Title III

SARA 302 Extremely Hazardous Substances: None.

SARA Section 311/312: Acute Health Hazard.

SARA 313 Toxic Chemicals: None.

CERCLA Reportable Quantity: None.

16. Other Information

CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or Disclaimer

The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however Epoxy Systems, Inc. makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the recommendations, and assumes no liabilities to any user thereof.

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