SAFETY DATA SHEET 488 Polyaspartic Coating - Part A



(Clear/Clear OP)HEALTH2FLAMMABILITY1PHYSICAL0PPEX

Printed: 10/26/2015 Revision: 10/26/2015

1. Pr	oduct and Company	/ Identif	ication	
Product Code:	488-CLEAR&OP			
Product Name:	488 Polyaspartic Coating -	Part A	(Clear/Clear OP)	
Trade Name:	488 Polyaspartic Coating -	Part A	(Clear/Clear OP)	
Manufacturer Information				
Company Name:	Epoxy Systems, Inc.			
	20774 W Pennsylvania Ave)		
	Dunnellon, FL 34431			
Phone Number:	+1 (352) 489-1666			
Emergency Contact:	PERS (USA)	(800)	633-8253	
Alternate Emergency Contact:	PERS (International)	+1	(801)629-0667	
Intended Use:	Industrial floor coatings.			
	2. Hazards Identi	fication		

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GHS Classification	Placard	Key word	GHS hazard phrase
Skin Corrosion/Irritation, Category 2	Exclamation point	Warning	Causes skin irritation
Serious Eye Damage/Eye Irritation, Category 2B	None	Warning	Causes eye irritation
Skin Sensitization, Category 1B	Exclamation point	Warning	May cause an allergic skin reaction

GHS Hazard Phrases

H315 - Causes skin irritation. H320 - Causes eye irritation. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

GHS Precaution Phrases

- P281 Use personal protective equipment as required.
- P262 Do not get in eyes, on skin, or on clothing.
- P280 Wear protective gloves/protective clothing/eye protection.
- P261 Avoid breathing mist/vapors.
- P273 Avoid release to the environment.

GHS Response Phrases

P302+352 - IF ON SKIN: Wash with plenty of soap and water. P362 - Take off contaminated clothing. P332+313 - If skin irritation occurs, get medical advice/attention.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P337+313 - If eye irritation persists, get medical advice/attention.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.

GHS Storage and Disposal Phrases

P403+235 - Store in cool/well-ventilated place. P404 - Store in a closed container.

Potential Health Effects (Acute and Chronic)

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

Inhalation

May cause respiratory irritation.

Skin Contact Causes skin irritation.

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.	Aspartic acid,	136210-30-5	60 - 70 %
	N,N'-(methylenedi-4,1-cyclohexanediyl)bis-,		
	tetraethyl ester		
2.	Secondary Diamines	NA	15 - 25 %
3.	Propanol, 1(or 2)-(2-methoxymethylethoxy)-,	88917-22-0	10 - 20 %
	acetate		
4.	Diethyl fumarate	623-91-6	1.0 - 5.0 %
5.	1,3,3-Trimethyl-N-(2-methylpropylidene)-5-[(2-	54914-37-3	1.0 - 5.0 %
	methylpropylidene)amino]cyclohexanemethyla		
	mine		
6.	Siloxanes and silicones, di-me, reaction	67762-90-7	1.0 - 5.0 %
	products with silica		
7.	Zeolites other than erionite (clinoptilolite,	1318-02-1	0 - 5.0 %
	phillipsite, mordenite, non-fibrous Japanese		
	zeolite,		

4. First Aid Measures

Emergency and First Aid Procedures

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use first aid treatment according to the nature of the injury.

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

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Signs and Symptoms Of Exposure

Moderate irritation effect.

5. Fire Fighting Measures

> 200.00 C Method Used: Pensky-Marten Closed Cup

Explosive Limits:

Flash Pt:

Autoignition Pt:

No data available.

Fire Fighting Instructions

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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

In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, and Amines.

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

tetraethyl ester

Wash thoroughly after handling.

8. Expo	sure Cont	rols/Persona	al Protection	
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Aspartic acid,	136210-30-5	No data.	No data.	No data.
N,N'-(methylenedi-4,1-cyclohexanediyl)bis-,				

GHS format

SAF	ETY DATA SI	HEET
488 Polya	spartic Coating	g - Part A
()	Clear/Clear OP	•)
CAS #	OSHA PEL	ACGIH 1

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Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
2. Secondary Diamines	NA	No data.	No data.	No data.
3. Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	No data.	No data.	No data.
4. Diethyl fumarate	623-91-6	No data.	No data.	No data.
5. 1,3,3-Trimethyl-N-(2-methylpropylidene)-5-[(2- methylpropylidene)amino]cyclohexanemethyla mine	54914-37-3	No data.	No data.	No data.
 Siloxanes and silicones, di-me, reaction products with silica 	67762-90-7	No data.	No data.	No data.
 Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, 	1318-02-1	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.

9. Physical and Chemical Properties						
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					
Specific Gravity (Water = 1):	~ 1.067					
Density:	~ 8.9 LB/GL					

Vapor Pressure (vs. Air or mm Hg):	NE
Vapor Density (vs. Air = 1):	NE
Evaporation Rate:	NE
Solubility in Water:	NP
Percent Volatile:	< 5.0 % by weight.
VOC / Volume:	NE
HAP / Volume:	NP
Saturated Vapor Concentration:	NE
Annearance and Oder	

Appearance and Odor

Odor: Mild. Appearance: Clear.

Stability:

10. Stability and ReactivityUnstable [] Stable [X]

Conditions To Avoid - Instability

Extreme temperatures.

Incompatibility - Materials To Avoid

Oxidizing agents, Acids, Isocyanates.

Hazardous Decomposition Or Byproducts

In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, and Amines.

Possibility of Hazardous Will occur [] Will not occur [X]

Polymerization:

Conditions To Avoid - Hazardous Reactions

Will not undergo hazardous polymerization in normal storage conditions.

11. Toxicological Information

Chronic Toxicological Effects

No data available.

Irritation or Corrosion

Skin Irritation. Irritating to eyes.

Ha	azardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1.	Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester	136210-30-5	n.a.	n.a.	n.a.	n.a.
2.	Secondary Diamines	NA	n.a.	n.a.	n.a.	n.a.
3.	Propanol, 1(or 2)-(2-methoxymethylethoxy)-, acetate	88917-22-0	n.a.	n.a.	n.a.	n.a.
4.	Diethyl fumarate	623-91-6	n.a.	n.a.	n.a.	n.a.
5.	1,3,3-Trimethyl-N-(2-methylpropylidene)-5-[(2- methylpropylidene)amino]cyclohexanemethyla mine	54914-37-3	n.a.	n.a.	n.a.	n.a.
6.	Siloxanes and silicones, di-me, reaction products with silica	67762-90-7	n.a.	n.a.	n.a.	n.a.
7.	Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite,	1318-02-1	n.a.	3	n.a.	n.a.

		gical Inform	,		
General Ecological Information	12. ECOID	gical inition			
Avoid release to the environment.					
Results of PBT and vPvB assessmen	•				
No data available.					
Persistence and Degradability					
No data available.					
Bioaccumulative Potential					
No data available.					
Mobility in Soil					
not reported, unknown.					
A.	3. Dispos	al Conside	rations		
Waste Disposal Method					
Incinerate or dispose of unused ma	aterial, residues	s and containers	in a licensed fac	cility in accordance	e with all
applicable local, state and federal				•	
	<u> </u>	port Inforn	•		
LAND TRANSPORT (US DOT)					
DOT Proper Shipping Name	Not Regulated	4			
	Not Regulated				
AIR TRANSPORT (ICAO/IATA)					
ICAO/IATA Shipping Name	Not Regulated	J.			
MARINE TRANSPORT (IMDG/IMO)					
IMDG/IMO Shipping Name	Not Regulated	l.			
Marine Pollutant:	No				
	15. Regulatory Information				
US EPA SARA Title III					
Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Aspartic acid,	136210-30-5	No	No	No	No
N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, tetraethyl ester					
2. Secondary Diamines	NA	No	No	No	No
3. Propanol, 1(or 2)-(2-methoxymethylethoxy)-,	88917-22-0	No	No	No	No
acetate					
4. Diethyl fumarate	623-91-6		No	No	No
 1,3,3-Trimethyl-N-(2-methylpropylidene)-5-[(2- methylpropylidene)amino]cyclohexanemethyla mine 	54914-37-3	No	No	No	No
 Siloxanes and silicones, di-me, reaction products with silica 	67762-90-7	No	No	No	No
 Zeolites other than erionite (clinoptilolite, phillipsite, mordenite, non-fibrous Japanese zeolite, 	1318-02-1	No	No	No	No
Regulatory Information SARA Section 311/312: Acute He	alth Hazard.				

SARA Section 311/312: Acute Health Hazard.

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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.

Revision Date:

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