	1	- Product a	nd Company I	aentifi	ication	
Product name:			Phosphetal 2-EH-	2		
Product type/usage/	/industry:		Phosphated alcoh	ol/Emu	lsifier	
Manufacturer/Suppl	ier Information:		Zschimmer and S 70 GA Hwy. 22 W Milledgeville, GA Phone: (478) 454	, 31061	, Inc.	
		Company: CHEMTREC (24H	IR):	(478) 454-1942 <b>(</b> 800) 424-9300		
		<u>2 – Ha</u>	zards Identific	ation		
Classification of t	he substance or	<u>mixture:</u>			f this substance/mixt 200/HazCom 2012 (	
Serious Eye Damage	/Irritation	Category 1	H318	Cause	es serious eye dama	ge
Skin Corrosion/Irritati	on	Category 2	H315	Cause	es skin irritation	
Labelling:						
Signal Word:	Haza	rd Symbols:				
	<	LF				
Precautionary State	P280 P305 conta P310 P302 P332	): Wear protectiv 5+351+338: IF IN act lenses if pres 0: Immediately c 2+352: IF ON Sk 2+313: If skin irri	ent and easy to do all a POISON CEN (IN: Wash with ple tation occurs: Get	itiously p – cont ITER/dc nty of so medical	with water for severa inue rinsing. octor. oap and water.	
Key to Hazard Categor	ies:					
1=Severe Hazard	2=Serious Haz	ard 3=M	oderate Hazard	4=S	light Hazard	5=Minimal Hazard
	3 –	Compositio	n/Information	on Ing	redients	
<u>CAS Number</u> 68439-39-4 26468-86-0 7664-38-2		ethanediyl), alpha ethanediyl), alpha	a-(2-ethylhexyl)-on a-(2-ethylhexyl)-on		/droxy-, phosphate /droxy-	<u>Avg % weight</u> 84 – 95% 5 – 15% < 1%

This is not intended to be a complete compositional disclosure. Information provided pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200/ HazCom 2012). See Section 8 for Exposure Limits, if any.

		<u>4 - First Aid Measures</u>	
Eyes:	Rinse cautiously with water for several (15) minutes. Remove contact lenses if present and easy to do – continue rinsing. Get immediate medical advice/attention.		
Skin:	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation develops or persists, get medical advice/attention.		
Inhalation:		and keep at rest in a position comfortable for breathing. If experiencing respiratory CENTER or doctor/physician.	
Ingestion:	Rinse mouth. Do NOT indu	ce vomiting. Call a POISON CENTER or doctor/physician.	
		5 - Firefighting Measures	
Extinguishing M Unsuitable Extin	ledia: nguishing Media:	Water spray, dry chemical, alcohol foam, or carbon dioxide. Water jet.	
Special Protective Firefighters:	ve Equipment for	Self-contained breathing apparatus and protective clothing when fighting any chemical fire.	
Unusual Fire & E	Explosion Hazards:	In case of fire, containers may explode from internal pressure. Cool with water. May emit toxic fumes of $CO_x$ and $PO_x$ under fire conditions.	
	6	- Accidental Release Measures	
Personal precau	itions:	Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.	
Environmental p	precautions:	P273: Avoid release to the environment Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater. Dispose of absorbed material in accordance with local, state and federal regulations.	
Methods for Containment/Cleaning Up:		Use neutralizing agent. Take up with absorbent material (e.g. vermiculite, general purpose binder). Dispose of absorbed material in accordance with local, state, and federal regulations.	
		7 - Handling and Storage	
Handling:		P261: Avoid breathing mists/vapors of product P262: Do not get in eyes, on skin, or on clothing P264: Wash thoroughly after handling P280: Wear protective gloves/eye protection/face protection	
Storage:		P402+404: Store in a dry place. Store in a closed container P403+233: Store in a well ventilated place. Keep container tightly closed.	
Special Packaging	ng Requirements:	P406: Store in a corrosive resistant container with a resistant inner liner. Do not store in light metal containers.	
Incompatible Ma Protection:	aterials or Fire/Explosion	Oxidizers, reducers, alkaline materials, light metals.	

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#### 8 - Exposure Controls/Personal Protection

Personal Protective Equipment (PPE):	
Hand Protection:	Use impervious gloves.
Eye Protection:	Wear safety glasses with side shields or full face shield.
Skin Protection:	Wear protective clothing.
Respiratory Protection:	Recommended if ventilation is limited.
Engineering Measures/Controls:	
Ventilation:	Ensure adequate ventilation to maintain product at acceptable airborne levels.
Other measures:	Eye-wash station.

#### Exposure Limits/Guidelines:

Material	CAS #	BASIS	TYPE	VALUE
Phosphoric acid	7664-38-2	ACGIH	TWA	1 mg/m3
		OSHA	TWA	1 mg/m3

#### 9 - Physical and Chemical Properties

Form and Appearance:	Clear to hazy, light yellow to amber liquid	Odor:	Characteristic
pH:	< 2 @ 1%	Odor Threshold:	N/D
Boiling Point:	>212°F (100°C)	Melting/Freezing point:	N/D
Vapor Pressure:	N/D	Vapor Density (Air=1):	N/D
Flash Point:	>200°F (93.9°C)	Evaporation Rate:	N/D
UEL:	N/D	LEL:	N/D
Viscosity:	N/D	Solubility in Water:	Dispersible
Octanol/Water Partition Coefficient:	N/A	Specific Gravity/ Bulk Density:	~1.05
Auto-ignition temperature:	N/D	Decomposition Temperature:	N/D
Volatile content:	N/D	VOC Data:	N/D

#### 10 - Stability and Reactivity

Chemical Stability:	Product is stable under ordinary conditions of use and storage.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Extreme temperatures, ignition sources, contact with light metals.
Incompatible Materials:	Strong oxidizers, acids, alkaline materials, light metals.
Hazardous Decomposition Products:	Extremely high temperatures and fire conditions may produce $CO_x$ and $PO_x$ .

		<u>11 - Toxicolo</u>	gical Infor	mation		
Acute Data:						
Principle Rout	es of Exposure:	Eye cor	ntact, skin co	ntact, ingestion,	inhalation (mist).	
Acute Toxicity						
Route of exposure:	Test type:	Species:		Results:	Comments:	
Oral	LD50	Rat		>2000 mg/kg (ATE mix)	H303: May be harmful if swallowed	
Dermal	LD50	Rabbit		>2000 mg/kg (ATE mix)	-	
Irritation and Corrosion	<u>1</u>					
Target organ:	Species:	Results	:		Comments:	
Eyes	Rabbit	Severely	r irritating		Irreversible eye damage possible	
Skin	Rabbit	Irritating			-	
Sensitization						
Target organ:	Species:	Results	:		Comments:	
Skin	Human	No effec	ts known		-	
Specific Target Organ	Toxicity – Single E	<u>xposure</u>				
Target organ:	Species:	Results	:		Comments:	
None known					-	
Chronic Data:						
Carcinogenicity						
IARC	NTP		ACGIH		OSHA	
No	No		No		No	
Mutagenicity:		NDA				
Reproductive Effects:		NDA				
Target Organ Effects:		NDA				

		<u>12 - Ecological </u>		
Acute Aquatic Toxicity				
Species:	Test type:	Exposure time:	Results:	Comments:
Rainbow trout	LC50	96h	NDA	Not expected to be acutely toxic to aquatic organisms
Daphnia magna	EC50	48h	NDA	-
Algae	EC50	72h	NDA	-
Environmental Fate				
Persistence/Deg	gradability:	This product is inhe	rently biodegradable.	
COD/BOD5:		NDA		
<b>Bioaccumulation Potential:</b>		Not expected to bioaccumulate.		
Mobility in Soil:		NDA		
Other Adverse Effects:		NDA		

### **13 - Disposal Considerations**

Product:

Packaging:

Dispose of absorbed material/content and/or container in accordance with local, state, federal and/or international regulations. NDA

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	<u>14 - Transport Regulations</u>
US DOT Regulations (Land Transport):	
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (phosphate, alkoxylated, free acid)
Hazard Class:	8
UN Number:	UN3265
Packing Group:	III
Label Required:	CORROSIVE
Other Information:	-
IATA/ICAO Regulations (Air Transport):	
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (phosphate, alkoxylated, free acid)
Hazard Class:	8
UN Number:	UN3265
Packing Group:	III
Label Required:	CORROSIVE
Other Information:	-
IMDG/IMO Regulations (Maritime Transpo	ort):
Proper Shipping Name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (phosphate, alkoxylated, free acid)
Hazard Class:	8
UN Number:	UN3265
Packing Group:	III
Label Required:	CORROSIVE
EMS Number:	F-A,S-B
Segregation Groups:	Acids
Marine Pollutant (Y/N):	Ν
Other Information:	-

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#### 15 - Regulatory Information **Domestic Regulations** Components requiring notification **SARA 302 (TPQ)** SARA 304 (RQ) **SARA 313** CERCLA (RQ) CAA 112(b) HAPS CAA 112(r) Phosphoric acid -None None None None None 7664-38-2 (5000 lbs) SARA 311/312 Hazard Categorization: Acute Health Hazard **State Information California Proposition 65:** May contain the following components known to the State of California to cause cancer, birth defects, or other reproductive harm. None. State Right to Know/ The following chemicals are present on one or more Right to Know/Hazardous Hazardous Substance List Substance Lists for the states of MA, MN, NJ, PA and RI. Information: Phosphoric acid (7664-38-2) This is not an exhaustive list. For information on listings in other states, please consult that state's RTK/HSL. **Chemical Inventories** Philippines United EUROPE Australia Canada Korea Japan China New States (EINECS/ (AICS) (PICCS) (ENCS/ (IECSC) Zealand (ECL) (TSCA) ISHL) (NZIoC) ELINCS/ DSL NDSL NLP) NDA NDA Yes Yes Yes Yes Yes No Yes No

#### Key to Abbreviations:

NDA - No data available N/D - Not determined N/A - Not applicable N/E - Not established

16 - Additional Information

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