

**1 - Product and Company Identification**

**Product name:** Phosphetal C810-4  
**Product type/usage/industry:** Ethoxylated alcohol phosphate/Emulsifier  
**Manufacturer/Supplier Information:** Zschimmer and Schwarz, Inc.  
70 GA Hwy. 22 W  
Milledgeville, GA 31061  
Phone: (478) 454-1942  
**Emergency contact:** **Company:** (478) 454-1942  
**CHEMTREC (24HR):** (800) 424-9300

**2 – Hazards Identification**

**Classification of the substance or mixture:** Classification of this substance/mixture is based on  
**29 CFR 1910.1200/HazCom 2012 (GHS-US)**

Skin Corrosion/Irritation	Category 1C	H314	Causes severe skin burns and eye damage
Serious Eye Damage/Irritation	Category 1	H318	Causes serious eye damage
Acute Aquatic Toxicity	Category 2	H401	Toxic to aquatic life

**Labelling:**

**Signal Word:**

**DANGER!**

**Hazard Symbols:**



**Precautionary Statements:**

P260: Do not breathe dusts/mists.  
P264: Wash thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P363: Wash contaminated clothing before reuse.  
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 person to fresh air and keep comfortable for breathing.  
P310: Immediately call a POISON CENTER/doctor.  
P405: Store locked up.  
P501: Dispose of contents/container in accordance with local, state, and federal regulations.

**Key to Hazard Categories:**

1=Severe Hazard      2=Serious Hazard      3=Moderate Hazard      4=Slight Hazard      5=Minimal Hazard

**3 – Composition/Information on Ingredients**

<u>CAS Number</u>	<u>Material or component</u>	<u>Avg % weight</u>
68130-47-2	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-, mono-C8-10-alkyl ethers, phosphates	>87%
71060-57-6	Alcohols, C8-10, ethoxylated	<5%
7664-38-2	Phosphoric acid	<3%

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.

**4 - First Aid Measures**

- Eyes:** Rinse cautiously with water for several (15) minutes. Remove contact lenses if present and easy to do – continue rinsing. Immediately call a POISON CENTER or doctor/physician.
- Skin:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician immediately.
- Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician immediately.

**5 - Firefighting Measures**

- Extinguishing Media:** Water spray, dry chemical, alcohol foam, or carbon dioxide.
- Unsuitable Extinguishing Media:** Water jet.
- Special Protective Equipment for Firefighters:** Self-contained breathing apparatus and protective clothing when fighting any chemical fire.
- Unusual Fire & Explosion Hazards:** In case of fire, containers may explode from internal pressure. Cool with water. May emit toxic fumes of CO<sub>x</sub> and PO<sub>x</sub> under fire conditions.

**6 - Accidental Release Measures**

- Personal precautions:** 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 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/protective clothing/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 Requirements:** P406: Store in a corrosive resistant container with a resistant inner liner.  
Do not store in light metal containers.

**Incompatible Materials or Fire/Explosion Protection:** Oxidizers, reducers, alkaline materials, light metals.

**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**

<b>Form and Appearance:</b>	Clear, yellow to amber liquid	<b>Odor:</b>	Characteristic
<b>pH:</b>	< 2 @ 1%	<b>Odor Threshold:</b>	N/D
<b>Boiling Point:</b>	>482°F (250°C)	<b>Melting/Freezing point:</b>	N/D
<b>Vapor Pressure:</b>	N/D	<b>Vapor Density (Air=1):</b>	N/D
<b>Flash Point:</b>	~410°F (210°C) (PMCC)	<b>Evaporation Rate:</b>	N/D
<b>UEL:</b>	N/D	<b>LEL:</b>	N/D
<b>Viscosity:</b>	N/D	<b>Solubility in Water:</b>	Dispersible
<b>Octanol/Water Partition Coefficient:</b>	N/A	<b>Specific Gravity/ Bulk Density:</b>	~1.08
<b>Auto-ignition temperature:</b>	N/D	<b>Decomposition Temperature:</b>	N/D
<b>Volatile content:</b>	N/D	<b>VOC Data:</b>	N/D

**10 - Stability and Reactivity**

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

**11 - Toxicological Information**

**Acute Data:**

**Principle Routes of Exposure:** Eye contact, skin contact, ingestion, inhalation (mist).

**Acute Toxicity**

Route of exposure:	Test type:	Species:	Results:	Comments:
Oral	LD50	Rat	>3950 mg/kg	H303: May be harmful if swallowed
Dermal	LD50	Rabbit	>2500 mg/kg	-

**Irritation and Corrosion**

Target organ:	Species:	Results:	Comments:
Eyes	Rabbit	Severely irritating	Irreversible eye damage possible
Skin	Rabbit	Severely irritating	Skin burns possible

**Sensitization**

Target organ:	Species:	Results:	Comments:
Skin	Human	No effects known	-

**Specific Target Organ Toxicity – Single Exposure**

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

**12 - Ecological Information**

**Acute Aquatic Toxicity**

Species:	Test type:	Exposure time:	Results:	Comments:
Rainbow trout	LC50	96h	5.5 mg/l	H401: Toxic to aquatic life
Daphnia magna	EC50	48h	NDA	-

**Environmental Fate**

<b>Persistence/Degradability:</b>	This product is readily biodegradable. ~71% in 28d
<b>COD/BOD5:</b>	NDA
<b>Bioaccumulation Potential:</b>	Not expected to bioaccumulate.
<b>Mobility in Soil:</b>	NDA
<b>Other Adverse Effects:</b>	NDA

**13 - Disposal Considerations**

<b>Product:</b>	Dispose of absorbed material/content and/or container in accordance with local, state, federal and/or international regulations.
<b>Packaging:</b>	NDA

**14 - Transport Regulations**

**US DOT Regulations (Land Transport):**

**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(Phosphate, alkoxyated, 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, alkoxyated, free acid)  
**Hazard Class:** 8  
**UN Number:** UN3265  
**Packing Group:** III  
**Label Required:** CORROSIVE  
**Other Information:** -

**IMDG/IMO Regulations (Maritime Transport):**

**Proper Shipping Name:** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(Phosphate, alkoxyated, 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):** N  
**Other Information:** -

**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)
None	None	None	Phosphoric acid - 7664-38-2 (5000 lbs)	None	None

**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.

Ethylene Oxide (75-21-8) (trace amounts, if any)  
1,4-Dioxane (123-91-1)(trace amounts, if any)

**State Right to Know/  
Hazardous Substance List  
Information:** The following chemicals are present on one or more Right to Know/Hazardous Substance Lists for the states of MA, MN, NJ, PA and RI.

Phosphoric acid (7664-38-2)  
Ethylene Oxide (75-21-8) (trace amounts, if any)  
1,4-Dioxane (123-91-1) (trace amounts, if any)

This is not an exhaustive list. For information on listings in other states, please consult that state's RTK/HSL.

**Chemical Inventories**

United States (TSCA)	EUROPE (EINECS/ELINCS/NLP)	Australia (AICS)	Philippines (PICCS)	Canada		Korea (ECL)	Japan (ENCS/ISHL)	China (IECSC)	New Zealand (NZIoC)
				DSL	NDSL				
Yes	Yes (exempt)	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes

**16 - Additional Information**

**Key to Abbreviations:**

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

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