

1 - Product and Company Identification

Product name: Phosphetal L12-6
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 2	H315	Causes skin irritation
Serious Eye Damage/Irritation	Category 1	H318	Causes serious eye damage
Corrosive to Metals	Category 1	H290	May be corrosive to metals
Acute Aquatic Toxicity	Category 2	H401	Toxic to aquatic life

Labelling:

Signal Word:

DANGER!

Hazard Symbols:



Precautionary Statements:

P234: Keep only in original container.
P264: Wash thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/eye protection/face protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P310: Immediately call a POISON CENTER/doctor.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P332+313: If skin irritation occurs: Get medical advice/attention.
P362+364: Take off contaminated clothing and wash it before reuse.
P390: Absorb spillage to prevent material damage.
P406: Store in a corrosive resistant container with a resistant inner liner.

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>
68585-36-4	Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy, mono-C10-14-alkyl ethers, phosphates	73 – 85%
66455-15-0	Alcohols, C10-14, ethoxylated	15 – 25%
7664-38-2	Phosphoric acid	< 2%

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. If skin irritation or a rash occurs: Get medical advice/attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician.

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_x and PO_x 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. Wear protective gloves/eye protection/face protection
- 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/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, amines, 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-TLV	1 mg/m3
		OSHA	TWA	1 mg/m3

9 - Physical and Chemical Properties

Form and Appearance:	Clear, colorless to yellow liquid	Odor:	Characteristic
pH:	~2.0 @ 1%	Odor Threshold:	N/D
Boiling Point:	>392°F (200°C)	Melting/Freezing point:	N/D
Vapor Pressure:	< 1 mbar @ 20°C	Vapor Density (Air=1):	N/D
Flash Point:	>212°F (100°C) (COC)	Evaporation Rate:	N/D
UEL:	N/D	LEL:	N/D
Viscosity:	N/D	Solubility in Water:	Emulsifiable
Octanol/Water Partition Coefficient:	N/A	Specific Gravity/ Bulk Density:	~1.05 @ 25°C
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, amines, light metals.
Hazardous Decomposition Products: Extremely high temperatures and fire conditions may produce CO_x and PO_x.

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	>2000 mg/kg	H303: May be harmful if swallowed

Irritation and Corrosion

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

Sensitization

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

Specific Target Organ Toxicity – Single Exposure

Target organ:	Species:	Results:	Comments:
NDA			-

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:
Fish	LC50	96h	1 – 10 mg/l (ATE mix)	H401: Toxic to aquatic life
Daphnia magna	EC50	48h	1 – 10 mg/l (ATE mix)	H401: Toxic to aquatic life

Environmental Fate

Persistence/Degradability:	This product is readily biodegradable. 60% after 28d		
COD/BOD5:	COD: 2162 mg O ₂ /g	BOD5: 859 mg O ₂ /g	
Bioaccumulation Potential:	NDA		
Mobility in Soil:	NDA		
Other Adverse Effects:	NDA		

13 - Disposal Considerations

Product:	Dispose of absorbed material/content and/or container in accordance with local, state, federal and/or international regulations.
Packaging:	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	Yes	NDA	Yes	No	Yes	No	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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