## Zschimmer & Schwarz GHS Safety Data Sheet

## **PHOSPHETAL 1362**

Revision Date: July 15, 2015

Version: 1.1 Page 1 of 7

## 1 - Product and Company Identification

Product name: Phosphetal 1362

Product type/usage/industry: Blend of phosphate esters/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

<u>Classification of the substance or mixture:</u> 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
Chronic Aquatic Toxicity	Category 3	H412	Harmful to aquatic life with long lasting effects

Labelling:

Signal Word: Hazard Symbols:

DANGER!



**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

CAS Number Material or component Avg % weight

Proprietary Blend of phosphate esters and ethoxylated alcohols > 93% 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.

Zschimmer & Schwarz GHS Safety Data Sheet

## **PHOSPHETAL 1362**

Revision Date: July 15, 2015

Version: 1.1 Page 2 of 7

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. 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<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/eve 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.

Zschimmer & Schwarz
GHS Safety Data Sheet

## **PHOSPHETAL 1362**

Revision Date: July 15, 2015

Characteristic

N/D

Version: 1.1 Page 3 of 7

#### 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:** 

pH:

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 to slightly hazy, colorless to light yellow liquid Odor:

< 2.5 @ 1% Odor Threshold:

Boiling Point: >212°F (100°C) Melting/Freezing point: N/D

Vapor Pressure: N/D Vapor Density (Air=1): N/D

Float Point: >212°F (100°C) (COC) Francestion Pote: 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: Dispersible

Octanol/Water Partition
Coefficient: N/A Specific Gravity/
Bulk Density: ~1.04 @ 25°C

Auto-ignition temperature:N/DDecomposition Temperature:N/DVolatile content:N/DVOC 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<sub>x</sub> and PO<sub>x</sub>.

Mutagenicity:

Reproductive Effects:

**Target Organ Effects:** 

## PHOSPHETAL 1362

Revision Date: July 15, 2015

Version: 1.1 Page 4 of 7

11 - Toxicological Information									
Acute Data: Principle Route	s 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 (ATE mix)	H303: May be harmful if swallowed					
Irritation and Corrosion									
Target organ:	Species:	Results:		Comments:					
Eyes	Rabbit	Severely irritating		Irreversible eye damage possible					
Skin	Rabbit	Serious irritation		Skin burns possible					
Sensitization									
Target organ:	Species:	Results:		Comments:					
Skin	Human	No effects known		-					
<u>Specific Target Organ Toxicity – Single Exposure</u> Target organ: Species: Results: Comments:									
NDA				-					
Chronic Data:									
<u>Carcinogenicity</u>									
IARC	NTP	ACGIH		OSHA					
No	No	No		No					

NDA

NDA

NDA

## **PHOSPHETAL 1362**

Revision Date: July 15, 2015

Version: 1.1 Page 5 of 7

## 12 - Ecological Information

<u>Acute</u>	Aquatic	<u>I oxicity</u>

Species:	Test type:	Exposure time:	Results:	Comments:		
Danio rerio	LC50	96h	10 – 100 mg/l (ATE mix)	H402: Harmful to aquatic life		
Daphnia magna	EC50	48h	10 – 100 mg/l (ATE mix)	H402: Harmful to aquatic life		
Desmodesmus subspicatus	EC50	72h	10 – 100 mg/l (ATE mix)	H402: Harmful to aquatic life		

#### **Environmental Fate**

Persistence/Degradability: This product is inherently biodegradable.

COD/BOD5: NDA
Bioaccumulation Potential: NDA
Mobility in Soil: NDA

Other Adverse Effects: Chronic Aquatic Toxicity – Category 3

H412: Harmful to aquatic life with long lasting effects

## 13 - Disposal Considerations

**Product:** Dispose of absorbed material/content and/or container in accordance with local,

state, federal and/or international regulations.

Packaging: NDA

# Zschimmer & Schwarz GHS Safety Data Sheet

PHOSPHETAL 1362

Revision Date: July 15, 2015

Version: 1.1 Page 6 of 7

## 14 - Transport Regulations

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

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(Contains alkyl phosphate esters)

Hazard Class:

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.

(Contains alkyl phosphate esters)

Hazard Class:

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.

(Contains alkyl phosphate esters)

Hazard Class: 8

UN Number: UN3265

Packing Group:

Label Required:CORROSIVEEMS Number:F-A,S-BSegregation Groups:AcidsMarine Pollutant (Y/N):NOther Information:-

## **PHOSPHETAL 1362**

Revision Date: July 15, 2015

Version: 1.1 Page 7 of 7

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 – 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.

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