

1 - Product and Company Identification

Product name: Phosphetal 8147 K

Product type/usage/industry: Solution of an organic phosphate ester salt

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)

Serious Eye Damage/Irritation	Category 1	H318	Causes serious eye damage
Skin Corrosion/Irritation	Category 2	H315	Causes skin irritation
Acute Aquatic Toxicity	Category 3	H402	Harmful to aquatic life

Labelling:

Signal Word:

DANGER!

Hazard Symbols:



Precautionary Statements:

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.

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	GHS Classification	Avg % weight
73018-34-5/ 68070-99-5	Poly(oxy-1,2-ethanediyl), α -octyl/decyl- ω -hydroxy-, phosphate, potassium salt	Eye Damage – Category 1 Skin Irritation – Category 2	60 – 70%
61827-42-7	Poly(oxy-1,2-ethanediyl), α -isodecyl- ω -hydroxy-	Eye Damage – Category 1 Acute Aquatic Toxicity – Category 2	20 – 25%

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 irritation persists, 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. Do not get in eyes, on skin, or on clothing. 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:	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. Protect from frost. Store in cool dry places between 32°F (0°C) and 95°F (35°C).
Special Packaging Requirements:	None known.
Incompatible Materials or Fire/Explosion Protection:	Strong oxidizers.

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
None				

9 - Physical and Chemical Properties

Form and Appearance:	Clear, colorless to pale yellow liquid	Odor:	Characteristic
pH:	~7.0 @ 5%	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 (93.3°C)	Evaporation Rate:	N/D
UEL:	N/D	LEL:	N/D
Viscosity:	N/D	Solubility in Water:	Dispersible
Octanol/Water Partition Coefficient:	N/D	Specific Gravity/Bulk Density:	~1.11 @ 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.
Incompatible Materials:	Strong oxidizers.
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 (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	Irritating	-

Sensitization

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

Specific Target Organ Toxicity – Single Exposure

Target organ:	Species:	Results:	Comments:
None			-

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:
Danio rerio	LC50	96h	10 – 100 mg/l (ATE mix)	H402: Harmful to aquatic life

Environmental Fate

Persistence/Degradability: NDA

COD/BOD5: NDA

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:	Not regulated.		
Hazard Class:	-	UN Number:	-
Packing Group:	-	Label Required:	-
Other Information:	-		

IATA/ICAO Regulations (Air Transport):

Proper Shipping Name:	Not regulated.		
Hazard Class:	-	UN Number:	-
Packing Group:	-	Label Required:	-
Other Information:	-		

IMDG/IMO Regulations (Maritime Transport):

Proper Shipping Name:	Not regulated.		
Hazard Class:	-	UN Number:	-
Packing Group:	-	Label Required:	-
EMS Number:	-	Segregation Groups:	-

Marine Pollutant (Y/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	None	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) (trace amounts, if any)
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	No	Yes	NDA	Yes	Yes	Yes	NDA	Yes	No

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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