

1 - Product and Company Identification

Product name: Phosphetal 1618
Product type/usage/industry: Phosphated alcohol/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)

None

Labelling:

Signal Word:

None

Hazard Symbols:

None

Precautionary Statements:

P262: Do not get in eyes, on skin, or on clothing.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P314: Get medical advice/attention if you feel unwell.

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>
74232-11-4	Polyphosphoric acids, C16-18-alkyl esters	98 - 100%
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. Get medical advice/attention if irritation develops.
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. P342+311: 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 dusts. 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:	If liquid, take up with absorbent material (e.g. vermiculite, general purpose binder). If solid, take up mechanically (e.g. shovel). Dispose of absorbed material in accordance with local, state, and federal regulations.

7 - Handling and Storage

Handling:	P261: Avoid breathing dusts 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 Avoid creating dusts.
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.

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:	Off-white to light brown solid (25°C)	Odor:	Characteristic
pH:	< 2 @ 1% (50:50 H2O:IPA)	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:	>201°F (93.9°C)	Evaporation Rate:	N/D
UEL:	N/D	LEL:	N/D
Viscosity:	N/D	Solubility in Water:	Insoluble
Octanol/Water Partition Coefficient:	N/A	Specific Gravity/ Bulk Density:	~1.02
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: Contact with light metals.

Incompatible Materials: Strong oxidizers, acids, alkaline materials.

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 (Derived from product of similar composition)	H303: May be harmful if swallowed

Irritation and Corrosion

Target organ:	Species:	Results:	Comments:
Eyes	-	Slight irritation possible	Mechanical irritation possible from dusts
Skin	Rabbit	Non-irritating	Prolonged contact may cause irritation in some individuals
Respiratory tract	-	-	Dusts may cause mild respiratory tract irritation

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	NDA	Not expected to be acutely toxic to aquatic organisms due to low water solubility
Daphnia magna	EC50	48h	NDA	-
Algae	EC50	72h	NDA	-

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

IATA/ICAO Regulations (Air Transport):

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

IMDG/IMO Regulations (Maritime Transport):

Proper Shipping Name:	Not regulated
Hazard Class:	Not regulated
UN Number:	Not regulated
Packing Group:	Not regulated
Label Required:	Not regulated
EMS Number:	Not regulated
Segregation Groups:	Not regulated
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	Phosphoric acid - 7664-38-2 (5000 lbs)	None	None

SARA 311/312 Hazard Categorization: None

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/
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)

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	No	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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