

1 - Product and Company Identification

Product name: Phosphetal TDA-9

Product type/usage/industry: Phosphated isotridecyl alcohol ethoxylate

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
Chronic Aquatic Toxicity	Category 3	H412	Harmful to aquatic life with long lasting effects

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

<u>CAS Number</u>	<u>Material or component</u>	<u>Avg % weight</u>
73038-25-2	Poly(oxy-1,2-ethanediyl), α -isotridecyl- ω -hydroxy-, phosphate	> 80%
9043-30-5	Poly(oxy-1,2-ethanediyl), α -isotridecyl- ω -hydroxy-	5 – 15%
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. 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 if you feel unwell.

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.
- 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, 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 to hazy, colorless to light yellow liquid	Odor:	Characteristic
pH:	< 2.5 @ 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:	>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:	~1.06
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, 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:
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:
Fathead minnow	LC50	96h	NDA	-
Daphnia magna	EC50	48h	NDA	-
Desmodesmus subspicatus	EC50	72h	NDA	-

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

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	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

THE INFORMATION PRESENTED IN THIS MATERIAL SAFETY DATA SHEET (MSDS/SDS) WAS PREPARED BY TECHNICAL PERSONNEL BASED ON DATA THAT THEY BELIEVE IN THEIR GOOD FAITH JUDGMENT IS ACCURATE. HOWEVER, THE INFORMATION PROVIDED HEREIN IS PROVIDED "AS IS," AND ZSCHIMMER & SCHWARZ INC. MAKES AND GIVES NO REPRESENTATIONS OR WARRANTIES WHATSOEVER, AND EXPRESSLY DISCLAIMS ALL WARRANTIES REGARDING SUCH INFORMATION AND THE PRODUCT TO WHICH IT RELATES, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF ACCURACY, COMPLETENESS, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY, STABILITY, AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE. THIS MSDS/SDS IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONARY HANDLING OF THE MATERIAL BY A PROPERLY TRAINED PERSON USING THIS PRODUCT, AND IS NOT INTENDED TO BE COMPREHENSIVE AS TO THE MANNER AND CONDITIONS OF USE, HANDLING, STORAGE, OR DISPOSAL OF THE PRODUCT. INDIVIDUALS RECEIVING THIS MSDS/SDS MUST ALWAYS EXERCISE THEIR OWN INDEPENDENT JUDGMENT IN DETERMINING THE APPROPRIATENESS OF SUCH ISSUES. ACCORDINGLY, ZSCHIMMER & SCHWARZ, INC. ASSUMES NO LIABILITY WHATSOEVER FOR THE USE OF OR RELIANCE UPON THIS INFORMATION. NO SUGGESTIONS FOR USE ARE INTENDED AS, AND NOTHING HEREIN SHALL BE CONSTRUED AS, A RECOMMENDATION TO INFRINGE ANY EXISTING PATENTS OR TO VIOLATE ANY FEDERAL, STATE, LOCAL, OR FOREIGN LAWS. ZSCHIMMER & SCHWARZ INC. REMINDS YOU THAT IT IS YOUR LEGAL DUTY TO MAKE ALL INFORMATION IN THIS MSDS/SDS AVAILABLE TO YOUR EMPLOYEES. EXISTING ACTS AND REGULATIONS MUST BE OBSERVED BY THE RECIPIENT OF OUR PRODUCTS UNDER THEIR OWN RESPONSIBILITY.

Date of Issue: January 6, 2015

Date of last revision: May 28, 2015