

1 - Product and Company Identification

Product name: Phosphetal TEA 80 NA
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 2A | H319 | Causes serious eye irritation |
|-------------------------------|-------------|------|-------------------------------|

Labelling:

Signal Word:

WARNING!

Hazard Symbols:



Precautionary Statements: P264: Wash thoroughly after handling.
P280: Wear 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.
P337+313: If eye irritation persists get medical advice/attention.

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> |
|-------------------|---|---------------------|
| 68131-72-6 | Polyphosphoric acids, esters with triethanolamine, sodium salts | 70 – 80% |

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. Call a POISON CENTER or doctor/physician. |
| Skin: | Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists 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 , NO _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 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 to slightly hazy, colorless to yellow liquid | Odor: | Characteristic |
| pH: | ~5.0 @ 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: | Soluble |
| Octanol/Water Partition Coefficient: | N/D | Specific Gravity/ Bulk Density: | ~1.58 @ 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, NO_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 | Mild irritation possible | - |

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: |
|---------------|------------|----------------|----------|--|
| Fish | NDA | | | Release of large amounts may have an adverse effect on the aquatic environment |
| Daphnia magna | 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): | Not regulated. |
| 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.

None known.

**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.

None known.

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 | No | No | Yes | No | No | NDA | No | No |

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: August 13, 2015

Date of last revision: August 13, 2015