

## SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product Identifier

**Product Name:** Phosphosilicate Solution

**Synonyms:** P452, P499, P500, P501, P502, P503, P504, P505, P506, P507, P508, P509, P510, P511, P512

### 1.2 Intended Use of the Product

**Use of the Substance/Mixture:** For professional use only.

### 1.3 Name, Address, and Telephone of the Responsible Party

Filmtronics Inc.  
675 Saxonburg Road  
16002 Butler, PA  
T 724-352-3790  
[www.filmtronics.com](http://www.filmtronics.com)

### 1.4 Emergency Telephone Number

**Emergency Number:** 800-424-9300 (US, CHEMTREC); 703-527-3887 (International, CHEMTREC)

## SECTION 2: Hazards Identification

### 2.1 Classification of the Substance or Mixture

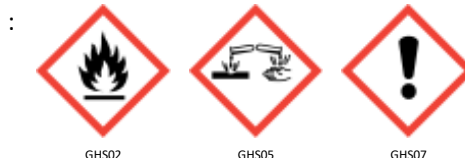
#### Classification (GHS-US)

Flam. Liq. 2	H225
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Corr. 1A	H314
Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Acute 2	H401

### 2.2 Label Elements

#### GHS-US Labeling

#### Hazard Pictograms (GHS-US)



#### Signal Word (GHS-US)

: Danger

#### Hazard Statements (GHS-US)

: H225 - Highly flammable liquid and vapor.  
H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage.  
H332 - Harmful if inhaled.  
H335 - May cause respiratory irritation.  
H401 - Toxic to aquatic life.

#### Precautionary Statements (GHS-US)

: P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical, ventilating, and lighting equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe vapors, mist, spray.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338 - 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 or doctor.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P321 - Specific treatment (see section 4).

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use appropriate media for extinction.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to local, regional, national, and international regulations.

### 2.3 Other Hazards

**Other Hazards Not Contributing to the Classification:** Flammable vapors can accumulate in head space of closed systems. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. High vapor concentration may cause shortness of breath (lung edema).

### 2.4 Unknown Acute Toxicity (GHS-US)

No data available.

## SECTION 3: Composition/Information of Ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Name	Product Identifier	%	Classification (GHS-US)
Ethanol	(CAS No) 64-17-5	55 - 70	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Aquatic Acute 2, H401
Phosphorus Polymer Ingredient #2	Proprietary	20 - 30	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2A, H319 STOT SE 3, H335
Phosphorus Polymer Ingredient #1	Proprietary	0.1 - 25	Skin Corr. 1A, H314 Eye Dam. 1, H318
Water	(CAS No) 7732-18-5	1 - 10	Not classified

The specific chemical identity and/or exact percentage (0.1-30%) of composition has been withheld as a trade secret.

Full text of H-phrases: see section 16

## SECTION 4: First Aid Measures

### 4.1 Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms/Injuries:** Causes serious eye damage. Corrosive. Causes burns. Harmful if inhaled. Irritation of respiratory tract.

**Symptoms/Injuries After Inhalation:** Respiratory tract irritation. Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

**Symptoms/Injuries After Skin Contact:** Contact may cause immediate severe irritation progressing quickly to chemical burns.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

#### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

### SECTION 5: Firefighting Measures

#### 5.1 Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical, carbon dioxide, or regular foam.

**Unsuitable Extinguishing Media:** Do not use extinguishing media containing water.

#### 5.2 Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Highly flammable liquid and vapor.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture.

**Reactivity:** Can react with water to produce phosphoric acid.

#### 5.3 Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid all eyes and skin contact and do not breathe vapor and mist. Do not allow product to spread into the environment.

##### 6.1.1 For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2 For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

#### 6.2 Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

#### 6.3 Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Use only non-sparking tools. Cautiously neutralize spilled liquid.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Use only non-sparking tools. Contact competent authorities after a spill. Cautiously neutralize spilled liquid.

#### 6.4 Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

### SECTION 7: Handling and Storage

#### 7.1 Precautions for Safe Handling

**Additional Hazards When Processed:** Handle empty containers with care because residual vapors are flammable. Flammable vapors can accumulate in head space of closed systems. Do not pressurize, cut, or weld containers. Can react with water to produce phosphoric acid.

**Precautions for Safe Handling:** Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do NOT breathe (vapors, mist, spray). Use only outdoors or in a well-ventilated area.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from extremely high or low temperatures, direct sunlight, ignition sources, incompatible materials.

**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

### 7.3 Specific End Use(s)

For professional use only.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

Ethanol (64-17-5)		
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Phosphorus Polymer Ingredient #2		
USA ACGIH	ACGIH TWA (ppm)	10 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	85 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
USA IDLH	US IDLH (ppm)	700 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	850 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm

### 8.2 Exposure Controls

**Appropriate Engineering Controls** : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment** : Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection. Gloves.



**Materials for Protective Clothing** : Chemically resistant materials and fabrics. Wear fire/flamm resistant/retardant clothing. Corrosionproof clothing.

**Hand Protection** : Wear chemically resistant protective gloves.

**Eye Protection** : Chemical goggles or face shield.

**Skin and Body Protection** : Wear suitable protective clothing.

**Respiratory Protection** : Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

**Thermal Hazard Protection** : Wear suitable protective clothing.

**Other Information** : When using, do not eat, drink or smoke.

### SECTION 9: Physical and Chemical Properties

#### 9.1 Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Relative Evaporation Rate (butylacetate=1)	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: No data available
Relative Density	: No data available
Specific Gravity	: Not available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, Kinematic	: No data available
Viscosity, Dynamic	: No data available
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: Not applicable

#### 9.2. Other Information

No additional information available.

### SECTION 10: Stability and Reactivity

#### 10.1 Information on Stability and Reactivity

**Reactivity:** Can react with water to produce phosphoric acid.

**Chemical Stability:** May form flammable/explosive vapor-air mixture.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Water.

**Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). May release flammable gases. Corrosive vapors. Oxides of phosphorus. Phosphoric acid. Silicon oxides.

### SECTION 11: Toxicological Information

#### 11.1 Information on Toxicological Effects

**Acute Toxicity:** Harmful if inhaled.

<b>Ethanol (64-17-5)</b>	
LC50 Inhalation Rat (mg/l)	124.7 mg/l/4h
<b>Phosphorus Polymer Ingredient #2</b>	
LD50 Dermal Rabbit	5878 mg/kg
ATE (Oral)	6270.000 mg/kg body weight
ATE (Dust/Mist)	1.500 mg/l/4h
<b>Phosphorus Polymer Ingredient #1</b>	
LC50 Inhalation Rat (mg/l)	1217 mg/m <sup>3</sup> (Exposure time: 1 h)

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Respiratory tract irritation. Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

**Symptoms/Injuries After Skin Contact:** Contact may cause immediate severe irritation progressing quickly to chemical burns.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

## SECTION 12: Ecological Information

### 12.1 Toxicity

**Ecology - General:** Toxic to aquatic life.

<b>Ethanol (64-17-5)</b>	
<b>LC50 Fish 1</b>	9.468 (9.468 - 12.624) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) converted from ml/l
<b>EC50 Daphnia 1</b>	9268 (9268 - 14221) mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>LC50 Fish 2</b>	100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
<b>EC50 Daphnia 2</b>	10800 mg/l (Exposure time: 24 h - Species: Daphnia magna)

### 12.2 Persistence and Degradability

<b>Phosphosilicate Solution</b>	
<b>Persistence and Degradability</b>	Not established.
<b>Ethanol (64-17-5)</b>	
<b>Persistence and Degradability</b>	Not established.

### 12.3 Bioaccumulative Potential

<b>Phosphosilicate Solution</b>	
<b>Bioaccumulative Potential</b>	Not established.
<b>Ethanol (64-17-5)</b>	
<b>Log Pow</b>	-0.32
<b>Bioaccumulative Potential</b>	Not established.

### 12.4 Mobility in Soil

No additional information available.

### 12.5 Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

**Ecology – Waste Materials:** The materials contained within this product are hazardous to the environment, do not release into the environment.

## SECTION 14: Transport Information

In Accordance With ICAO/IATA/IMDG/DOT

### 14.1 UN Number

**UN-No.(DOT)** : 2924  
**DOT NA No.** UN2924



### 14.2 UN Proper Shipping Name

**DOT Proper Shipping Name** : Flammable liquids, corrosive, n.o.s. (Ethanol, Phosphorus Solution)

**Department of Transportation** : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

**(DOT) Hazard Classes**

**Hazard Labels (DOT)** : 3 - Flammable liquids  
8 - Corrosive substances



**DOT Symbols** : G - Identifies PSN requiring a technical name

**Packing Group (DOT)** : II - Medium Danger

**DOT Special Provisions (49 CFR 172.102)** : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T11 - 6 178.274(d)(2) Normal..... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling =  $95 / (1 + a (tr - tf))$  Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula:  $a = (d_{15} - d_{50}) / 35d_{50}$  Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

**DOT Packaging Exceptions (49 CFR 173.xxx)** 150

**DOT Packaging Non Bulk (49 CFR 173.xxx)** 202

**DOT Packaging Bulk (49 CFR 173.xxx)** 243

### 14.3 Additional Information

**Emergency Response Guide (ERG) Number** 132

**Other Information** : No supplementary information available.

**Transport by Sea**

**DOT Vessel Stowage Location** : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

**DOT Vessel Stowage Other** : 40 - Stow "clear of living quarters"

**Air Transport**

**DOT Quantity Limitations** : 1 L

**Passenger Aircraft/Rail (49 CFR 173.27)**

**DOT Quantity Limitations Cargo** : 5 L

**Aircraft Only (49 CFR 175.75)**

## SECTION 15: Regulatory Information

### 15.1 US Federal Regulations

<b>Phosphosilicate Solution</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Fire hazard Delayed (chronic) health hazard Immediate (acute) health hazard
<b>Ethanol (64-17-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Phosphorus Polymer Ingredient #2</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Phosphorus Polymer Ingredient #1</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2 US State Regulations

<b>Ethanol (64-17-5)</b>	
<b>U.S. - California - Proposition 65 - Carcinogens List</b>	WARNING: This product contains chemicals known to the State of California to cause cancer.
<b>U.S. - California - Proposition 65 - Developmental Toxicity</b>	WARNING: This product contains chemicals known to the State of California to cause birth defects.
<b>Ethanol (64-17-5)</b>	
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)	
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)	
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations	
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)	
U.S. - Idaho - Occupational Exposure Limits - TWAs	
U.S. - Maine - Chemicals of High Concern	
U.S. - Massachusetts - Allowable Ambient Limits (AALs)	
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)	
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1	
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2	
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity	
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1	
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2	
U.S. - Massachusetts - Right To Know List	
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)	
U.S. - Michigan - Occupational Exposure Limits - TWAs	
U.S. - Minnesota - Chemicals of High Concern	
U.S. - Minnesota - Hazardous Substance List	
U.S. - Minnesota - Permissible Exposure Limits - TWAs	
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour	
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual	
U.S. - New Jersey - Right to Know Hazardous Substance List	
U.S. - New Jersey - Special Health Hazards Substances List	
U.S. - New York - Occupational Exposure Limits - TWAs	
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour	
U.S. - Oregon - Permissible Exposure Limits - TWAs	
U.S. - Pennsylvania - RTK (Right to Know) List	
U.S. - Tennessee - Occupational Exposure Limits - TWAs	
U.S. - Texas - City of Austin - Aerosol Paint and Glue Restrictions	
U.S. - Texas - Effects Screening Levels - Long Term	
U.S. - Texas - Effects Screening Levels - Short Term	
U.S. - Vermont - Permissible Exposure Limits - TWAs	
U.S. - Washington - Permissible Exposure Limits - STELs	



### U.S. - Washington - Permissible Exposure Limits - TWAs

#### Phosphorus Polymer Ingredient #2

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
 U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
 U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
 U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
 U.S. - Idaho - Occupational Exposure Limits - TWAs  
 U.S. - Massachusetts - Right To Know List  
 U.S. - Michigan - Occupational Exposure Limits - TWAs  
 U.S. - Minnesota - Hazardous Substance List  
 U.S. - Minnesota - Permissible Exposure Limits - TWAs  
 U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
 U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - New Jersey - Special Health Hazards Substances List  
 U.S. - New York - Occupational Exposure Limits - TWAs  
 U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
 U.S. - Oregon - Permissible Exposure Limits - TWAs  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Tennessee - Occupational Exposure Limits - TWAs  
 U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term  
 U.S. - Vermont - Permissible Exposure Limits - TWAs  
 U.S. - Washington - Permissible Exposure Limits - STELs  
 U.S. - Washington - Permissible Exposure Limits - TWAs  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater  
 U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

#### Phosphorus Polymer Ingredient #1

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
 U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
 U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
 U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
 U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
 U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
 U.S. - Massachusetts - Right To Know List  
 U.S. - New Jersey - Right to Know Hazardous Substance List  
 U.S. - New Jersey - Special Health Hazards Substances List  
 U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
 U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
 U.S. - Pennsylvania - RTK (Right to Know) List  
 U.S. - Texas - Effects Screening Levels - Long Term  
 U.S. - Texas - Effects Screening Levels - Short Term

## SECTION 16: Other Information

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. The specific chemical identity and/or exact percentage (0.1-30%) of composition has been withheld as a trade secret.

#### GHS Full Text Phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A

Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H401	Toxic to aquatic life

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)