## **FILMTRONICS** Phosphosilicate Solution

ADVANCED SEMICONDUCTOR PROCESS MATERIALS Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 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

### 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)

**Precautionary Statements** 

**Hazard Statements** 

(GHS-US)

(GHS-US)



#### : Danger

- : 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.

#### : 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



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#### 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	Proprietary	20 - 30	Flam. Liq. 3, H226
Ingredient #2			Acute Tox. 4 (Inhalation:dust,mist), H332
			Eye Irrit. 2A, H319
			STOT SE 3, H335
Phosphorus Polymer	Proprietary	0.1 - 25	Skin Corr. 1A, H314
Ingredient #1			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.

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**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

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#### 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.

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**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 no 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.

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#### **SECTION 8: Exposure Controls/Personal Protection**

3.1 Control Parameters			
Ethanol (64-2	17-5)		
USA ACGIH	ACGIH STEL (ppm)	1000 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm	
USA IDLH	US IDLH (ppm)	3300 ppm (10% LEL)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	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/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	10 ppm	
USA IDLH	US IDLH (ppm)	700 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m³)	850 mg/m <sup>3</sup>	
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm	

#### 8.2 Exposure Controls

Exposure Controis	
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/flame 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.



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#### **SECTION 9: Physical and Chemical Properties** Information on Basic Physical and Chemical Properties 9.1 **Physical State** : Liquid Odor : No data available **Odor Threshold** • No data available pН : 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 ٠ 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.

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



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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 Sumptome (Injuries After Inhelation: Receiver tract irritation, Inhelation, may source immediate exposure irritation)

**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.

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

#### 12.2 Persistence and Degradability

Phosphosilicate Solution		
Persistence and Degradability	Not established.	
Ethanol (64-17-5)		
Persistence and Degradability	Not established.	
12.2 Piezegumulative Detential		

#### 12.3 Bioaccumulative Potential

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



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14.2	UN Proper Shipping Name DOT Proper Shipping Name Department of Transportation (DOT) Hazard Classes Hazard Labels (DOT)	<ul> <li>Flammable liquids, corrosive, n.o.s. (Ethanol, Phosphorus Solution)</li> <li>3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120</li> <li>3 - Flammable liquids 8 - Corrosive substances</li> </ul>
	DOT Symbols Packing Group (DOT) DOT Special Provisions (49 CFR 172.102)	<ul> <li>G - Identifies PSN requiring a technical name</li> <li>II - Medium Danger</li> <li>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.</li> <li>T11 - 6 178.274(d)(2) Normal</li></ul>
	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 Other Information	132 : 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 Air Transport	: 40 - Stow "clear of living quarters"
	DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27)	: 1L
	DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75)	: 5 L



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SECTION 15: Regulatory Information		
5.1 US Federal Regulations		
Phosphosilicate Solution		
SARA Section 311/312 Hazard Classes	Fire h	nazard
		/ed (chronic) health hazard
	Imme	ediate (acute) health hazard
Ethanol (64-17-5)		
Listed on the United States TSCA (Toxic Substances Co	ntrol Act	) inventory
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Substances Co	ntrol Act	) inventory
Phosphorus Polymer Ingredient #2		
Listed on the United States TSCA (Toxic Substances Co	ontrol Act	) inventory
Phosphorus Polymer Ingredient #1		
Listed on the United States TSCA (Toxic Substances Co	ntrol Act	) inventory
		, inventory
5.2 US State Regulations		
Ethanol (64-17-5)		
U.S California - Proposition 65 - Carcinogens List		WARNING: This product contains chemicals known to the
II.C. Colifornia Dronosition CE. Developmental Ter	dialate -	State of California to cause cancer.
U.S California - Proposition 65 - Developmental To>	acity	WARNING: This product contains chemicals known to the State of California to cause birth defects.
Ethanol (64-17-5)		
U.S Connecticut - Hazardous Air Pollutants - HLVs (3		
U.S Connecticut - Hazardous Air Pollutants - HLVs (8	•	
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - A	-	
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - E	mission I	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 Amblent Linns (AALs	-	(s)
		ater Reportable Concentration - Reporting Category 1
		ater Reportable Concentration - Reporting Category 2
U.S Massachusetts - Oil & Hazardous Material List - I		
U.S Massachusetts - Oil & Hazardous Material List -		-
U.S Massachusetts - Oil & Hazardous Material List -		
U.S Massachusetts - Right To Know List		
U.S Massachusetts - Threshold Effects Exposure Lim	its (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		
U.S New Hampshire - Regulated Toxic Air Pollutants		nt Air Levels (AALs) - Annual
U.S New Jersey - Right to Know Hazardous Substanc		
U.S New Jersey - Special Health Hazards Substances		
U.S New York - Occupational Exposure Limits - TWAs		
U.S North Dakota - Air Pollutants - Guideline Concen	irrations	- 1-nonl
U.S Oregon - Permissible Exposure Limits - TWAs U.S Pennsylvania - RTK (Right to Know) List		
U.S Tennessee - Occupational Exposure Limits - TWA	١٩	
U.S Texas - City of Austin - Aerosol Paint and Glue Re		s
U.S Texas - Effects Screening Levels - Long Term	-3111011	5
U.S Texas - Effects Screening Levels - Long Term		
U.S Vermont - Permissible Exposure Limits - TWAs		
U.S Washington - Permissible Exposure Limits - STELs		

U.S. - Washington - Permissible Exposure Limits - STELs



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U.S Washington - Permissible E	xposure Limits - TWAs
Phosphorus Polymer Ingredient	
U.S Connecticut - Hazardous Ai	
U.S Connecticut - Hazardous Ai	
	oxic Air Pollutants - Acceptable Ambient Concentrations
	oxic Air Pollutants - Emission Levels (ELs)
U.S Idaho - Occupational Expos	
U.S Massachusetts - Right To Ki	
U.S Michigan - Occupational Ex	
U.S Minnesota - Hazardous Sub	
U.S Minnesota - Permissible Ex	
	d Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
. –	d Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S New Jersey - Right to Know	
U.S New Jersey - Special Health	
U.S New York - Occupational Ex	
	ts - Guideline Concentrations - 8-Hour
U.S Oregon - Permissible Expos	
U.S Pennsylvania - RTK (Right to	
U.S Tennessee - Occupational E	
U.S Texas - Effects Screening Le	
U.S Texas - Effects Screening Le	
U.S Vermont - Permissible Expo	
U.S Washington - Permissible E	
U.S Washington - Permissible E	
-	Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
	Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
	Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
	Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
Phosphorus Polymer Ingredient	#1
U.S Delaware - Pollutant Discha	arge Requirements - Reportable Quantities
U.S Idaho - Non-Carcinogenic T	oxic Air Pollutants - Acceptable Ambient Concentrations
U.S Idaho - Non-Carcinogenic T	oxic Air Pollutants - Emission Levels (ELs)
U.S Massachusetts - Oil & Haza	rdous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S Massachusetts - Oil & Haza	rdous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S Massachusetts - Oil & Haza	rdous Material List - Reportable Quantity
U.S Massachusetts - Oil & Haza	rdous Material List - Soil Reportable Concentration - Reporting Category 1
U.S Massachusetts - Oil & Haza	rdous Material List - Soil Reportable Concentration - Reporting Category 2
U.S Massachusetts - Right To Ki	now 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 Re	leases Part 597 - List of Hazardous Substances
U.S Pennsylvania - RTK (Right to	o Know) - Environmental Hazard List
U.S Pennsylvania - RTK (Right to	
U.S Texas - Effects Screening Le	-
U.S Texas - Effects Screening Le	evels - Short Term
SECTION 16: Other Infor	mation
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
	$\alpha_{\rm rest}$ is a second seco

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



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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)