

# SUPER SILVER PRINT PLUS CONCENTRATED STABILIZER

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.

7200 Huron River Drive, Dexter, MI 48130

Product Name: **SUPERSILVER PRINT PLUS STABILIZER**

Product Number: **628020**

**Product Use:** Stabilizer

**Customer Information Phone Number:**

1-734-424-9625

**CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300**

Date Reviewed: 7/17/2015

Version: 3.0

## 2. HAZARDOUS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Health hazard

Acute toxicity, Oral (Category 4), H302

Causes skin irritation (Category 2), H315

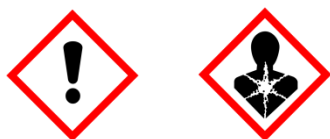
Eye irritation (Category 2A), H319

Specific organ toxicity Oral (Category 2), Kidney, H373

Acute aquatic toxicity (Category 3), H402

### 2.2 GHS Label elements, including precautionary statements

#### Pictogram



**Signal Word: WARNING**

#### Hazard statement(s)

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes eye irritation

H373 Specific organ toxicity – repeated exposure, Oral, Kidney

H402 Acute aquatic toxicity

#### Precautionary statement(s)

P201 Obtain special instructions before use

P260 Avoid breathing mist  
 P264 Wash skin thoroughly after handling  
 P270 Do not eat, drink, or smoke when using this product  
 P273 Avoid release into the environment  
 P280 Wear protective gloves, eye protection  
 P301 + P312 IF SWALLOWED; call a POISON CENTER or doctor/physician if you feel unwell  
 P302 + P352 IF ON SKIN: Wash with plenty of soap  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P330 Rinse mouth.  
 P501 Dispose of contents to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
PHOSPHORIC ACID	7664-38-2	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	5-10
POTASSIUM HYDROXIDE	1310-58-3	N.E.	2mg/m <sup>3</sup>	5-10
ETHYLENE GLYCOL Aerosol vapor and mist	107-21-1	125 mg/m <sup>3</sup> C	100 mg/m <sup>3</sup> C,	5-10

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**Inhalation:** If symptomatic, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion:** Only induce vomiting at the instruction of medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Skin Contact:** Flush skin with plenty of water and wash with a non-alkaline skin cleaner. Wash contaminated clothes before reuse. Get medical attention if irritation develops.

**Aggravated Medical Conditions:** Individuals who are under the care of a physician or have chronic ailments, should consult a physician before using this product.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Nonflammable. Use agent appropriate for surrounding fire.

#### 5.2 Special Hazards arising from substance or mixture

Fire or excessive heat may cause production of hazardous decomposition products.  
 Combustion Products: Carbon dioxide, carbon monoxide.

### 5.3 Advise for firefighters

Wear self-contained breathing NIOSH/MSHA approved apparatus and protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Avoid contact with skin and eyes. Stop the spillage. Dike the spill. Prevent liquid from entering sewers, waterways or low areas. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill.

### 6.2 Environmental precautions

Prevent liquid from entering sewers, waterways or low areas. Discharge to sewer requires approval of permitting authority and may require pre-treatment. Contaminated surfaces should be cleaned using water.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Store in a cool, dry, well-ventilated area. Keep containers closed. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.

### 7.2 Conditions for safe storage, including any incompatibles

Do not store with incompatible materials. Do not store with oxidizing materials. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal. Dispose of in a licensed facility.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### 8.1 Control parameters

See Section 3.

### 8.2 Exposure controls

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### Personal protective equipment

**Eye Protection:** Safety glasses with side shields (or goggles).

**Respiratory Protection:** When this product is used in the intended way, no respiratory protection is anticipated to be necessary. However, if use conditions generate decomposition vapors or fumes; use a NIOSH approved respirator with acid gas cartridges.

**Skin protection:** Latex, rubber, or neoprene waterproof gloves are recommended.

**Body protection:** Rubber or plastic apron.

**Respiratory protection:** Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Appearance And Odor: Colorless, odorless solution.

Solubility In Water: Complete

Boiling Point: > 100° C

Flash Point: Nonflammable

Vapor Pressure: Not established

Ph: 5.2

Specific Gravity: 1.13 g /ml

Melting Point: Not applicable

Freezing Point: <-18° C

Evaporation Rate: Not established

Vapor Density: Not established

Percent Volatile: 81.3

Molecular Weight: Not applicable

Pounds Per Gallon: 9.4

V.O.C. is 81.1 g/L or 7% or 0.67 lb. /gal.

## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

Stable

### **10.2 Chemical stability**

Conditions To Avoid: None

### **10.3 Possibility of hazardous reactions**

None

### **10.4 Conditions to avoid**

None

### **10.5 Incompatible Materials**

May be incompatible with strong acids.

### **10.6 Decomposition Products**

May produce oxides.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information of toxicological effects

#### Component information

##### ***Phosphoric Acid 7664-38-2***

**Acute toxicity:**

Oral: LD50 (rats):1,530 mg/kg 50% of test species  
Inhalation: no data  
Dermal: LD50 (rabbits) – 2,740 mg/kg 50% of test species

**Skin irritation:** Skin – rabbit, 595 mg/24 h. Severely irritating

**Eye irritation:** Eyes – rabbit, 119 mg, Severely irritating

**Respiratory:** No data available

**Carcinogenicity/mutagenicity:** none

**Specific target organ toxicity – repeated exposure**

No data available

##### ***Ethylene glycol 107-21-1***

**Acute toxicity:**

Oral: LD50 (rats): 4,700 mg/kg  
Inhalation: no data  
Dermal: LD50 (rabbits) – 10,626 mg/kg

**Skin irritation:** Skin – rabbit, not irritant

**Eye irritation:** Eyes – rabbit, Mild eye irritation - 24h  
Not considered to be a human eye irritant in normal industrial use.

**Respiratory or skin sensitization:** No data available

**Carcinogenicity/mutagenicity:** none

**Specific target organ toxicity – repeated exposure**

Oral -May cause damage to organs through prolonged exposure. – kidney

**Aspiration hazard:** No data available

##### ***Potassium Hydroxide 1310-58-3***

**Acute toxicity:**

No data available

Dermal

No data available

Inhalation: no data

No data available

**Skin irritation:** no data

**Eye irritation:** no data

**Respiratory or Skin Sensitization:**

No data available

**Carcinogenicity/mutagenicity:** None

**12. ECOLOGICAL INFORMATION****Component information*****Phosphoric Acid 7664-38-2*****12.1 Toxicity**

Toxicity to fish LC50-Mosquito fish – 138 mg/l – 96 h Practically nontoxic.

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No specific biodegradation test data located. While acidity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.

**12.5 Result of PBT and vPvB assessment**

Assessment not available as chemical assessment not required/not conducted

**12.5 Other adverse effects**

No data available

***Ethylene glycol 107-21-1*****12.1 Toxicity**

Toxicity to fish LC50-Oncorhynchus mykiss (rainbow trout) – 18,500 mg/l – 96 h  
LC50-Leuciscus idus (Golden orfe) - >10,000 mg/l – 48 h  
NOEC-Pimephales promelas (fathead minnow) – 32,000 mg/l – 7 d

Toxicity to daphnia and  
other aquatic invertebrates

EC50 – Daphnia magna (Water flea) – 74,000 mg/l – 24 h  
LC50 – Daphnia magna (Water flea) – 41,000 mg/l – 48 h

**12.2 Persistence and degradability**

No data available

Ratio BOD/ThBOD 0.78%

**12.3 Bioaccumulative potential**

Does not bioaccumulate

Bioaccumulation other fish – 61 d  
-50 mg/l

**12.4 Mobility in soil**

No data available

**12.5 Result of PBT and vPvB assessment**

Assessment not available as chemical assessment not required/not conducted

**12.5 Other adverse effects**

No data available

**Potassium Hydroxide 45% 1310-58-3****12.1 Toxicity**

Toxicity to fish	LC50-Mosquito fish – 80 mg/l – 96h LC0-Fathead minnow - >179 mg/l – 96h
Toxicity to daphnia and other aquatic invertebrates	LC50 – Daphnia magna (Water flea) – 53.2 mg/l – 21d EC50 – Daphnia magna (Water flea) -60 mg/l – 48 h
Algae toxicity	ErC50 – Selenastrum capricornutum -61 mg/l – 96 h

**12.2 Persistence and degradability**

This material will disassociate into ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize this material.

**12.3 Bioaccumulative potential**

This material will not bioconcentrate

**12.4 Mobility in soil**

No data available

**12.5 Result of PBT and vPvB assessment**

Assessment not available as chemical assessment not required/not conducted

**12.5 Other adverse effects****13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**14. TRANSPORT INFORMATION****DOT (US)**

Not regulated

**15. REGULATORY INFORMATION****SARA 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302:

	Cas#	Revision Date
Ethylene Glycol	107-21-1	2007-07-01

**SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

	Cas#	Revision Date
Ethylene Glycol	107-21-1	2007-07-01

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**California Prop 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA**

All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

**SCAQMD Rule 443.1**

Photochemically Reactive: No  
Maximum Grams of VOC per Liter: 81.1 g/L  
Vapor Pressure: Not established

**16. OTHER INFORMATION****Full text of H-statements referred to under sections 2 and 3.**

Acute toxicity, Oral (Category 4), H302  
Causes skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Specific organ toxicity Oral (Category 2), Kidney, H373  
Acute aquatic toxicity (Category 3), H402

**HMIS RATING**

Health: 1\*  
Flammability: 0  
Reactivity: 0

OTHER ADDITIONAL INFORMATION: The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injuries from the use of the product described herein.