

# NETWORK PRO ONE DEVELOPER POWDER

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.

7200 Huron River Dr., Dexter, MI 48130

Product Name: **PRO ONE DEVELOPER POWDER**

Product Number: **730710Q, 730734P**

**Product Use:** Photographic developer.

**Customer Information Phone Number:**

1-734-424-9625

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

Date Reviewed: 2/25/2015

Rev. 2.0

## 2. HAZARDOUS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Health hazard

Acute toxicity, Oral (Category 4), H302

Causes severe skin burns and eye damage (Skin Corr. 1B) H314

Serious eye damage (Category 1), H314

Skin sensitization (Category 2), H317

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 2), H351

Harmful to aquatic life (Category 3), H402

Chronic aquatic toxicity (Category 1), H410

### 2.2 GHS Label elements, including precautionary statements

#### Pictogram



**Signal Word: DANGER**

Hazard statement(s)

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause allergic skin reaction
H318	Causes severe eye damage
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life

## Precautionary statement(s)

P201	Obtain special instructions before use
P260	Do not breathe dust or 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/ protective clothing/ eye protection/ face protection.
P301 + P312	IF SWALLOWED; call a POISON CENTER or doctor/physician 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 victim to fresh air and keep at rest in a position 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.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse
P391	Collect spillage
P501	Dispose of contents to an approved waste disposal plant.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
SODIUM SULFITE	7757-83-7	N.E.	5mg/m <sup>3</sup>	50-60
HYDROQUINONE	123-31-9	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	10-15
LITHIUM HYDROXIDE	1310-66-3	N.E.	N.E.	5-10
SODIUM CARBONATE	497-19-8	N.E.	N.E.	5-10
DISSOLVINE EDTA	60-00-4	N.E.	N.E.	1-5

## 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:** Do not induce vomiting. 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. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

## 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

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, and oxides of sulfur and lithium.

### 5.3 Advise for firefighters

Wear self-contained breathing NIOSH/MSHA approved apparatus and protective clothing to prevent contact with skin and eyes. Fire or excessive heat may produce hazardous decomposition products. Use water to keep containers cool.

## 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. Pick up and arrange disposal without creating dust. Sweep up and shovel. If in working solution 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.

## 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 strong acids. 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. Avoid contact with skin and eyes. 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)/faceshield.

**Respiratory Protection:** Use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.

**Skin protection:** Nitrile rubber, Latex, 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: Crystalline white powder

Solubility In Water: Complete

Boiling Point: Not applicable

Vapor Pressure: Not applicable

Specific Gravity: 1.073

Melting Point: Not applicable

Freezing Point: Not applicable

Ph: Not applicable

Vapor Density: Not applicable

Evaporation Rate: Not applicable

Percent Volatile: Not applicable

Molecular Weight: Not applicable

Pounds Per Gallon: 8.94

V.O.C. is 0

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable

### 10.2 Chemical stability

Conditions To Avoid: None

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible Materials

Strong acids, oxidizing agents, aluminum, and Zinc.

### 10.6 Decomposition Products

May produce oxides of sulfur, carbon, and lithium.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information of toxicological effects

#### Component information

##### ***Lithium Hydroxide Monohydrate 1310-66-3***

**Acute toxicity:**

LD50 Oral (rat) 368 mg/kg  
LC50 Inhalation(rat) > 6.15 mg/l - 4h (OECD Test Guideline 403)  
Dermal: no data available

**Skin corrosion/irritation**

Skin - in vitro assay

Result: Corrosive (In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX)

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitisation:** no data available

**Germ cell mutagenicity:** Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Not mutagenic in Ames Test. mouse lymphocyte Result: negative

**Carcinogenicity IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity** Lithium and its compounds are possible teratogens by analogy to lithium carbonate which has equivocal human teratogenic data and positive animal teratogenic data. no data available

**Specific target organ toxicity** - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available

##### ***Hydroquinone 123-31-9***

**Acute toxicity:**

Oral LD-50 (rat) 367.3 mg/kg (OECD Test Guidance 401)  
Dermal LD-50 (rabbit) >2,000 mg/kg (OECD Test Guidance 402)  
Inhalation: no data

**Skin irritation: no data**

**Eye irritation: no data**

**Respiratory or Skin Sensitization** (in vivo assay – mouse (OECD Test Guidance 429)  
May cause sensitization by skin contact.  
May cause allergic skin reaction.

**Carcinogenicity/mutagenicity:** none

##### ***Sodium Carbonate 497-19-8***

**Acute toxicity:**

LD50 Oral – rat – 2800 mg/kg

**Skin irritation:** LD50 Dermal – rabbit > 2000 mg/kg

**Eye irritation:**

No data available

**Respiratory or Skin Sensitization**LD50 Inhalation – guinea pig – 800 mg.m<sup>3</sup>**Carcinogenicity/mutagenicity:** none***Sodium Sulfite 7757-83-7*****Acute toxicity:**

Oral LD-50 (rat)

3,560 mg/kg

Inhalation LD-50 (rat)

>5,500 mg/m<sup>3</sup> - 4 h

Dermal: no data

**Skin irritation:**

Skin – rabbit

Result: No skin irritation

**Eye irritation:**

Skin – rabbit

Result: No skin irritation

**Respiratory or Skin Sensitization**

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Carcinogenicity/mutagenicity:** none**12. ECOLOGICAL INFORMATION****Component information*****Lithium Hydroxide Monohydrate 1310-66-3*****12.1 Toxicity**

Toxicity to fish

LC50 - Danio rerio (zebra fish) - 109 mg/l - 96 h  
(OECD Test Guideline 203)Toxicity to daphnia and  
other aquatic invertebratesLC50 – Daphnia magna (Water flea) – ca. 33.5 mg/l - 48 h  
(OECD Test Guideline 202)

Toxicity to algae

EC50 – Pseudokirchneriella subcapitata (green algae)  
- 41.62 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria

EC50 - Sludge Treatment - ca. 316.8 mg/l - 3 h  
(OECD Test Guideline 209) Respiration inhibition**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

Does not bioaccumulate

**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**

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life

***Sodium Carbonate 497-19-8*****12.1 Toxicity**

LC50 /96 hours: 300 mg/l (bluegill, sunfish)  
EC50/48 hours: 200-227 mg/L (Ceriodaphnia)

**12.2 Persistence and degradability**

This product is completely biodegradable.

**12.3 Bioaccumulative potential**

No data available

**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

***Sodium Sulfite 7757-83-7*****12.1 Toxicity**

Toxicity to fish LC50- *Gambusia affinis* (Mosquito fish) -660 mg/l – 96h

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**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**

None

**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)**

Ship Name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Contains Lithium Hydroxide, Monohydrate)  
Hazard Class: 8  
UN No.: 3262  
Packing Group: II  
Guide No: 154

Limited Quantity Exception may apply to this product, for "inner packagings not over 1.0L (0.3 gal) for liquids and 1.0 kg (2.2 lb.) for solids". 173.154 (b) (1). Each package must conform to the packaging requirements of Subpart B of Part 173 and may not exceed 30 kg (66 lb.) gross weight. For further information consult the 49 CFR.

DOT Class: CONSUMER COMMODITY, ORM-D  
Hazard Class: NOT APPLICABLE  
UN No.: NOT APPLICABLE  
Packing Group: NOT APPLICABLE  
Guide No: NOT APPLICABLE  
Ship Name: NOT APPLICABLE

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

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

	Cas#	Revision Date
Hydroquinone	123-31-9	2007-07-01

**SARA 313 Components**

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

	Cas#	Revision Date
Hydroquinone	123-31-9	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: 0 g/L  
Vapor Pressure: 18 mm Hg@ 20 Degrees C



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

Acute toxicity, Oral (Category 4), H302  
Causes severe skin burns and eye damage (Skin Corr. 1B) H314  
Serious eye damage (Category 1), H314  
Skin sensitization (Category 2), H317  
Harmful to aquatic life (Category 3), H402  
Acute aquatic toxicity (Category 1), H410

**HMIS RATING**

Health: 2  
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.