

# FREESTYLE PHOTOGRAPHIC SUPPLIES LEGACYPRO® L110 LIQUID FILM DEVELOPER

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **L110 LIQUID FILM DEVELOPER**

Product Number: **10190**

**Product Use:** Photographic developer.

**Customer Information Phone Number:**

1-800-292-6137

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

Date Reviewed: 07/26/2018

Version: 6.0

## 2. HAZARDOUS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Health hazard

Acute toxicity, Oral (Category 4), H302

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 2), H351

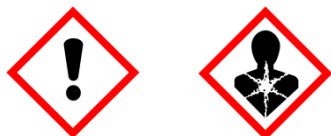
Specific organ toxicity Oral (Category 2), Kidney, H373

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

### 2.2 GHS Label elements, including precautionary statements

#### Pictogram



**Signal Word: WARNING**

#### Hazard statement(s)

H302 Harmful if swallowed

H317 May cause allergic skin reaction

H318 Causes severe eye damage

H341 Suspected of causing genetic defects

H351 Suspected of causing cancer

H373 Specific organ toxicity – repeated exposure, Oral (Category 2), Kidney

H410 Very toxic to aquatic life

## Precautionary statement(s)

P201	Obtain special instructions before use
P261	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.
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.
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 %
POTASSIUM SULFITE	10117-38-1	N.E.	N.E.	10-20
HYDROQUINONE	123-31-9	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	5-10
DIETHYLENE GLYCOL	111-46-6	10mg/m <sup>3</sup> (WEEL)	10mg/m <sup>3</sup> (WEEL)	5-10
SODIUM BORATE	1303-96-4	N.E.	5mg/m <sup>3</sup>	1-5
DIETHANOLAMINE	111-42-2	2 ppm	1 ppm	0-1

### 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. 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 nitrogen.

### 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. 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 and keep away from heat. 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: Pale yellow color, no odor.

Solubility In Water: Complete

Boiling Point: > 100° C

Flash Point: Nonflammable

Flash Point Method: Not applicable

Auto ignition: Not applicable

LEL: Not applicable

UEL: Not applicable

Vapor Pressure: 18 mm Hg @ 20° C

Ph: 10.0

Specific Gravity: 1.26 g /ml

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: N.E.

Vapor Density: Not established

Percent Volatile: 63.3

Molecular Weight: Not applicable

Pounds Per Gallon: 10.72

V.O.C. is 10.2 g/L or 0.8% or 0.08 lb. /gal.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable

### 10.2 Chemical stability

Conditions To Avoid: Heat

### 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

**10.6 Decomposition Products**

May produce oxides of sulfur and carbon

**11. TOXICOLOGICAL INFORMATION****11.1 Information of toxicological effects****Component information*****Diethylene glycol 111-46-6*****Acute toxicity:**

Oral: LD50 (rats): 12,565 mg/kg

Oral: LD50 (human) – 1,000 mg/kg

Remarks: Effects due to ingestion may include: Drowsiness, Gastrointestinal disturbance, Liver disorders

Behavioral: Muscle weakness

Dermal: LD50 (rabbits) – 11,890 mg/kg

Inhalation: no data

**Skin irritation:** Skin – rabbit, not irritant**Eye irritation:** Eyes – rabbit, not considered to be a human eye irritant in normal industrial use.**Respiratory or skin sensitization:** Maximization Test – guinea pig, did not cause sensitization.**Carcinogenicity/mutagenicity:** none**Specific target organ toxicity – repeated exposure**

May cause damage to organs through prolonged exposure.

Oral - kidney

***Hydroquinone 123-31-9*****Acute toxicity:**

Oral LD-50 (rat) 367.3 mg/kg (OECD Test Guidance 401)

Dermal LD-50 (rabbit) &gt;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***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

***Potassium Sulfite 45% 10117-38-1***

**Acute toxicity:**

No data available

Dermal:

No data available

Inhalation:

No data available

**Skin irritation:**

Skin – rabbit (OECD Test Guidance 429)

No skin irritation – 4h

**Eye irritation:**

No data available

**Respiratory or Skin Sensitization**

No data available

**Carcinogenicity/mutagenicity:** none

***Diethanolamine 111-42-2***

**Acute toxicity:**

Oral: LD50 (rats): 710 mg/kg

Dermal: LD50 (rabbits) – 12,200 mg/kg

Inhalation: No data available

**Skin irritation:** Rabbit

Result: Mild skin irritation – 24 h (Draize Test)

**Eye irritation:** Eyes – Rabbit

Result: Severe eye irritation – 24 h

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

**Carcinogenicity/mutagenicity:** IARC: 2B – Group 2B: Possibly carcinogenic to humans

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 known or anticipated carcinogen by NTP.

**Reproductive toxicity:** No data available.

## 12. ECOLOGICAL INFORMATION

### Component information

#### *Diethylene glycol 111-46-6*

##### 12.1 Toxicity

Toxicity to fish	LC50-Pimephales promelas (fathead minnow) – 75,200 mg/l – 96h LC50-Carassius auratus (goldfish) – 5,000 mg/l – 24h
Toxicity to daphnia and other aquatic invertebrates	EC50 – Daphnia magna (Water flea) -> 10,000 mg/l – 24 h

##### 12.2 Persistence and degradability

Biodegradability	anaerobic – Exposure time 28d Result: 90 – 100% - Readily biodegradable.
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##### 12.3 Bioaccumulative potential

Bioaccumulation	Leuciscus idus melanotus – 3 d – 0.05 mg/l
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##### 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

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

##### 12.1 Toxicity

Toxicity to fish	LC50-Oncorhynchus mykiss (rainbow trout) – 0.4 -0.1 mg/l – 96h
Toxicity to daphnia and other aquatic invertebrates	LC50 – Daphnia magna (Water flea) – 0.13 – 48h
Toxicity to algae	EC50 – Pseudokirchneriella subcapitata (green algae) -0.335 mg/l – 72 h

##### 12.2 Persistence and degradability

Biodegradability	Biotic/Aerobic – exposure time 14d Result: 86% - Readily biodegradable
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##### 12.3 Bioaccumulative potential

Bioaccumulation	Leuciscus idus (golden orfe) – 3d – 50 µg/l Bioconcentration factor (BCF):40
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##### 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

##### 12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

**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

**Potassium Sulfite 45% 10117-38-1**

**12.1 Toxicity**

Toxicity to fish	Static test-Leuciscus idus (golden orfe) – 215-464 mg/l – 96h
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**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

**Diethanolamine 111-42-2**

**12.1 Toxicity**

Toxicity to fish	LC50-Ptychocheilus Lucius – 279 mg/l – 96h LC0-Lepomis macrochirus (bluegill) - >1,021 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) -133 mg/l – 48 h

**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

**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
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
Diethanolamine	111-42-2	2011-07-01

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**California Prop 65 Components**

**WARNING:** This product can expose you to chemicals including Diethanolamine, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# SAFETY DATA SHEET



## 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: 10.2 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

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Acute aquatic toxicity (Category 1), H400

## 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.