FREESTYLE PHOTOGRAPHIC SUPPLIES
LEGACY PRO LMAX FILM DEVELOPER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies
5124 Sunset Blvd., Hollywood, CA 90027
Product Name: LMAX FILM DEVELOPER
Product Number: 10146, 10147
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: 10/13/2014
Version: 2.0

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>OHSA PEL</th>
<th>ACGIH TLV</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTASSIUM SULFITE</td>
<td>10117-38-1</td>
<td>N.E.</td>
<td>N.E.</td>
<td>10-15</td>
</tr>
<tr>
<td>HYDROQUINONE</td>
<td>123-31-9</td>
<td>2mg/m³</td>
<td>2mg/m³</td>
<td>1-5</td>
</tr>
<tr>
<td>DIETHYLENE GLYCOL</td>
<td>111-46-6</td>
<td>10mg/m³ (WEEL)</td>
<td>50 ppm TWA</td>
<td>1-5</td>
</tr>
</tbody>
</table>

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 Precations 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: > 100º 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: 9.63
Specific Gravity: 1.06 g/ml
Melting Point: Not applicable
Freezing Point: N.E.
Evaporation Rate: N.E.
Vapor Density: 0.6 (air=1)
Percent Volatile: 90.77
Molecular Weight: Not applicable
Pounds Per Gallon: 8.83
V.O.C. is 0.28.0 g/L or 2.64% or 23.31 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, carbon, and nitrogen
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) >2,000 mg/kg (OECD Test Guidance 402)

**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

**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

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.

12.3 Bioaccumulative potential

Bioaccumulation
Leuciscus idus melanotus – 3 d – 0.05 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

None
**Hydroquinone 123-31-9**

**12.1 Toxicity**

Toxicity to fish
- LC50-Onchorhynchusd 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

**12.3 Bioaccumulative potential**

Bioaccumulation
- Leuciscus idus (golden orfe) – 3d – 50 µNo data available
  Bioconcentration factor (BCF):40

**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**

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

Algae toxicity
- EC50 – Daphnia magna (Water flea) -60 mg/l – 48 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

Potassium Sulfite 45% 10117-38-1

12.1 Toxicity
   Toxicity to fish Static test-Leuciscus idus (golden orfe) – 215-464 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)
Not regulated

15. REGULATORY INFORMATION

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

<table>
<thead>
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<td>123-31-9</td>
<td>2007-07-01</td>
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SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

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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: 28 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.