

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

Date: 10/16/14 Legacy Pro LMAX Film Developer 1 / 9



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				
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.	10-15
HYDROQUINONE	123-31-9	2mg/m³	2mg/m³	1-5
DIETHYLENE GLYCOL	111-46-6	10mg/m³ (WEEL)	50 ppm TWA	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: 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.

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Date: 10/16/14	Legacy Pro LMAX Film Developer	213 I
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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.

Date: 10/16/14	Legacy Pro LMAX Film Developer	3 / 9



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: 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

Hydroguinone 123-31-9

Acute toxicity:

Oral LD-50 (rat)

367.3 mg/kg (OECD Test Guidance 401) >2,000 mg/kg (OECD Test Guidance 402)

Dermal LD-50 (rabbit)

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 Eve irritation; no data

Respiratory or Skin Sensitization:

No data available

Carcinogenicity/mutagenicity:

None-

Date: 10/16/14



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

Eve 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 -

961

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

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Hydroquinone 123-31-9

12.1 Toxicity

LC50-Oncorhynchusd mykiss (rainbow trout) - 0.4 -0.1 Toxicity to fish

mg/l = 96h

Toxicity to daphnia and

other aquatic invertebrates

LC50 - Daphnia magna (Water flea) - 0.13 - 48h

EC50 - Pseudokirchneriella subcapitata (green algae) Toxicity to algae

-0.335 mg/l - 72 h

12.2 Persistence and degradability

Biotic/Aerobic - exposure time 14d Biodegradability

Result: 86% - Readily biodegradable

12.3 Bioaccumulative potential

Leuciscus idus (golden orfe) - 3d - 50 µNo data available Bioaccumulation

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

LC50-Mosquito fish - 80 mg/l - 96h Toxicity to fish

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

ErC50 - Selenastrum capricornutum -61 mg/l - 96 h Algae toxicity

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:

Cas#

Revision Date

Hydroguinone

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 nay other reproductive harm.

TSCA

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

SCAOMD 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.