FREESTYLE PHOTOGRAPHIC SUPPLIES
LEGACYPRO® RAPID FIXER HARDENER
SOLUTION B

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies
5124 Sunset Blvd., Hollywood, CA 90027
Product Name: **RAPID FIXER HARDENER**
Product Number: **10186, 10187**
Product Use: Hardening agent for fixers
Customer Information Phone Number: 1-800-292-6137
CHEMTREC®: 24 Hour Emergency Transport Phone Number: 1-800-424-9300
Date Reviewed: 08/27/20
Rev. 7.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Serious eye damage, (Category 1), H318
Acute aquatic toxicity (Category1), H403
Metal Corrosivity (Category 1), H290
Skin Corrosion (Category 1), H314
Harmful if inhaled (Category 4), H332

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal Word: DANGER

Hazard statement(s)

H290 May be corrosive to metals.
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H403 Harmful to aquatic life

Precautionary statement(s)
P201 Obtain special instruction 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 and water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CONTROL or doctor.
P501 Dispose of contents to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
ALUMINUM SULPHATE	10043-01-3	N.E.	2mg/m³ as aluminum	15-20
SULFURIC ACID	7664-93-9	1 mg/m³	0.2 mg/m³ TWA	10-15

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 while holding eyelids apart. After initial flushing remove contact lenses, if worn and continue flushing. 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: If swallowed, DO NOT induce vomiting. Give large quantities of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Skin Contact: Immediately wash contaminated areas with plenty of soap and water for at least 15 minutes. Seek medical attention if irritation develops.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Nonflammable - Foam, water fog, carbon dioxide, or dry chemical. Use of water spray may be inefficient.

5.2 Special Hazards arising from substance or mixture

The product causes burns of eyes, skin and mucous membranes. Fire or excessive heat may cause production of hazardous decomposition products.
Combustion Products: oxides of sulfur
Unusual Fire And Explosion Hazards: Oxidizers.

5.3 Advise for firefighters

Wear self-contained NIOSH/MSHA approved positive pressure breathing 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. Neutralize with alkali such as soda ash, or lime. Adequate ventilation is required if soda ash is used, because of the consequent release of carbon dioxide gas. 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

Avoid contact with skin, eyes or clothing. Do not breathe mist. 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. 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. Exposure Guidelines: See Section 2.

Personal protective equipment

Eye Protection: Chemical safety goggles/splash shield.

Respiratory Protection: Use NIOSH/MSHA approved respirator for acid fumes or if mist may be generated.

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

Body protection: Rubber or plastic apron.

Ventilation protection: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance And Odor: Colorless liquid with slight sulfur dioxide odor.
Solubility In Water: Complete
Boiling Point: >100° C
Flash Point: Nonflammable
Vapor Pressure: 18mm Hg @ 20° C
Ph: 1.0
Specific Gravity: 1.2 g/ml
Melting Point: Not applicable
Freezing Point: Not established
Evaporation Rate: Not established
Vapor Density: Not established
Percent Volatile: 65-70
Molecular Weight: Not applicable
Pounds Per Gallon: 9.9
V.O.C. is 0.

10. STABILITY AND REACTIVITY

10.1 Reactivity
Alkalis and water reactive materials such as oleum, cause exothermic reactions.

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4 Conditions to avoid
High temperature, sparks, open flames,

10.5 Incompatible Materials
Avoid contact with bases. Incompatible with oxidizing agents.

10.6 Decomposition Products
At temperatures above, can release sulfur oxides gases.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Aluminum Sulfate 10043-01-3

Acute toxicity:
Oral: LD50 (rats): 1930 mg/kg
Dermal: No data available
Inhalation: No data available

Skin irritation: No data available

Eye irritation: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: None

Reproductive toxicity: No adverse reproductive effects are anticipated.

Specific Target Organ toxicity – No data available

Sulfuric Acid 7664-93-9

Acute toxicity:
Oral LD50 No data available
Inhalation LC50 No data available
Dermal LD50: No data available

Skin corrosion/irritation: No data available

Eye irritation: No data available

Respiratory or Skin Sensitization No data available

Carcinogenicity/mutagenicity:

IARC: 1- Group 1: Carcinogenic to humans (Sulfuric acid)

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

NTP: Known to be human carcinogen (Sulfuric acid).

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

12. ECOLOGICAL INFORMATION

Component information

Aluminum Sulfate 10043-01-3

12.1 Toxicity

Harmful to aquatic life at low concentrations.

Toxicity to fish	LC50 – fish – 100 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

Sulfuric Acid 7664-93-9

12.1 Toxicity

Toxicity to fish	LC50 – Bluegill sunfish – 49 mg/l – 48h LC50 – Flounder – 100-330 mg/l – 48h

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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
The preferred options for disposal are to send to licensed recyclers, or to approved 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)

DOT Class: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(Contains Sulfuric Acid and Chromic Acid)
Hazard Class: 8
UN No.: 3264
Packing Group: II
Guide No: 154
Ship Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Contains Sulfuric Acid and Chromic Acid)

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
DOT Class: NOT REGULATED

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:
None

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:
Sulfuric Acid is listed.

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

California Prop 65 Components
Sulfuric Acid is listed as a Group 1 carcinogenic to humans by IARC. NONE OF THE COMPONENTS IN THIS CHEMICAL IS LISTED BY NTP, OR OSHA AS A CARCINOGEN.
None

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
Vapor Pressure: 18 mm Hg@ 20 Degrees C

16. OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3.

Serious eye damage, (Category 1), H318
Acute aquatic toxicity (Category1), H403
Metal Corrosivity (Category 1), H290
Skin Corrosion (Category 1), H314
Harmful if inhaled (Category 4), H332
Serious eye damage, (Category 1), H318

HMIS RATING

Health: 2
Chronic Health Hazard *
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.