



FREESTYLE PHOTOGRAPHIC SUPPLIES

ARISTA® ARIFIX FIXER POWDER

BLACK & WHITE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **ARIFIX FIXER POWDER**

Product Number: **731711**

Product Use: Photographic fixer.

Customer Information Phone Number:

1-800-292-6137

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

Date Reviewed: 5/04/2015

Version: 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Causes eye irritation (Category 2B), H320

Causes skin irritation (Category 2), H314

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H305 May be harmful if swallowed and enters airways

H314 Causes skin irritation

H320 Causes eye irritation

H335 May cause respiratory irritation

Precautionary statement(s)

P264 Wash skin thoroughly after handling

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 %
SODIUM THIOSULFATE	7772-98-7	N.E.	N.E.	70-80
SODIUM ACETATE	127-09-3	N.E.	N.E.	10-15
SODIUM METABISULFITE	7681-57-4	N.E.	5 mg/m ³	5-10
BORIC ACID	10043-35-3	N.E.	N.E.	1-3

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.

Inhalation: If symptomatic, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Never give anything to an unconscious person. Rinse mouth with water. Seek medical attention or contact a poison control center for advice about whether to induce vomiting.

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: Skin contact may aggravate an existing dermatitis.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Nonflammable -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.

5.3 Advise for firefighters

Wear self-contained breathing NIOSH/MSHA approved 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. Avoid generating dust. If mixed, dike the spill. For small amounts less than one gallon flush to the sewer with large amounts of water. For larger spills, 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. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues.

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.

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

Body protection: Rubber or plastic apron.

Ventilation 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 with faint vinegar odor.

Solubility In Water: Complete

Boiling Point: Not applicable
Flash Point: Nonflammable
Flash Point Method: Not applicable
Auto ignition: Not applicable
LEL: Not applicable
UEL: Not applicable
Vapor Pressure: Not applicable
Ph: Not applicable (5.75 mixed)
Specific Gravity: Not applicable
Melting Point: Not applicable
Freezing Point: Not established
Evaporation Rate: Not established
Vapor Density: Heavier than air
Percent Volatile: Not applicable
Molecular Weight: Not applicable
Pounds Per Gallon: Not applicable
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

Damp and humid conditions.

10.5 Incompatible Materials

Strong acids and oxidizers.

10.6 Decomposition Products

Sulfur dioxide is evolved under acid conditions of $\text{pH} < 4$.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Sodium Thiosulfate 10102-17-7

Acute toxicity:

No data available

Dermal: No data available

Inhalation: No data available

LD50 Intravenous – rat- $>2,500 \text{ mg/kg}$

Skin irritation: No data available

Eye irritation: No data available

Carcinogenicity/mutagenicity: No data available

Sodium Metabisulfite 7681-57-4

Acute toxicity:

No data available

Oral LD-50 (rat) 1,540 g/kg

Inhalation: no data available

Dermal: LD-50 (rat) > 2,000 g/kg

Skin irritation: no data available

Eye irritation: Rabbit Risk of serious damage to eyes.

Respiratory or Skin Sensitization Prolonged or repeated exposure may cause allergic skin reaction in certain sensitive individuals.

Carcinogenicity/mutagenicity: none

Sodium Acetate 127-09-3

Acute toxicity:

Oral: LD50 (rats): 3,530 mg/kg

Dermal: LD50 (Rabbit) - > 10,000 mg/kg

Inhalation: LC50 (Rat) – 1h -> 30,000 mg/m³

Skin irritation: Rabbit
Mild irritation – 24 h

Eye irritation: Rabbit
Mild eye irritation

Respiratory or skin sensitization: No data available

Carcinogenicity/mutagenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity – repeated exposure – No data available

Aspiration hazard - No data available

Boric Acid 10043-35-3

Acute toxicity:

Oral: LD50 (rats): 2,660 mg/kg

Dermal: No data

Inhalation: No data

Skin irritation: No data available

Eye irritation: No data available

Respiratory sensitization: No data available

Carcinogenicity/mutagenicity: none

12. ECOLOGICAL INFORMATION

Component information

Sodium Thiosulfate 10102-17-7

12.1 Toxicity

No data available

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

Sodium Metabisulfite 7681-57-4

12.1 Toxicity

Toxicity to fish	LC50- Oncorhynchus mykiss (rainbow trout) – 150-220 mg/l – 96h
Toxicity to daphnia and other aquatic invertebrates	LC50 – Daphnia magna (Water flea) – 89 mg/l – 24 h

Toxicity to algae	IC50 – Desmodesmus subspicatus (green algae) - > 48 mg/l – 72 h (OECD Test Guideline 201).
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Toxicity to bacteria	EC50 - Pseudomonas putida - 56 mg/l – 17 h
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12.2 Persistence and degradability

12.3 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

12.5 Other adverse effects

Environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

Sodium Acetate 127-09-3

12.1 Toxicity

Toxicity to fish	LC0- Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l – 96h (OECD Test Guideline 203).
Toxicity to daphnia and other aquatic invertebrates	LC50 – Daphnia magna (Water flea) – > 300.82mg/l – 48h (OECD Test Guideline 202).

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Biodegradability aerobic – exposure time 30d
Result: 99% - Readily biodegradable

Biochemical Oxygen Demand (BOD) 880 mg/g

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 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

12.5 Other adverse effects

No data available.

Boric Acid 10043-35-3

12.1 Toxicity

Toxicity to fish	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

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: None

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: None

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

Vapor Pressure: Not available

16. OTHER INFORMATION

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

H305	May be harmful if swallowed and enters airways
H314	Causes skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

HMIS RATING

Health: 1

Flammability: 0

Reactivity: 0

Protective: C

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.