

FREESTYLE PHOTOGRAPHIC SUPPLIES

ARISTA® PAPER DEVELOPER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **ARISTA® PAPER DEVELOPER**

Product Number: **10203, 10204**

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: 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Reproductive toxicity (Category 2), H361

Acute toxicity, Oral (Category 4), H302

Serious eye damage (Category 1), H318

Skin sensitization (Category 1), H317

Germ cell mutagenicity (Category 2), H341

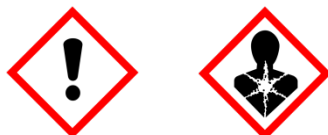
Carcinogenicity (Category 2), H351

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

MATERIAL SAFETY DATA SHEET



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.	10-15
POTASSIUM HYDROXIDE	1310-58-3	N.E.	2mg/m ³	5-10
SODIUM SULFITE	7757-83-7	N.E.	N.E.	5-10
HYDROQUINONE	123-31-9	2mg/m ³	2mg/m ³	1-5
BORIC ACID	10043-35-3	N.E.	N.E.	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: If swallowed, give victim a glass of water or milk. 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.

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. 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. 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.

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: Light straw color; slight odor.

Solubility In Water: Complete

Boiling Point: N.E.

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: 11.35

Specific Gravity: 1.27 g /ml

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: N.E.

Vapor Density: N.E

Percent Volatile: 64.89

Molecular Weight: Not applicable

Pounds Per Gallon: 10.59

V.O.C is 0

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

10.6 Decomposition Products

May produce oxides of sulfur and carbon.

11. TOXICOLOGICAL INFORMATION**11.1 Information of toxicological effects****Component information*****Boric Acid 10043-35-3*****Acute toxicity:**

Oral: LD50 (rats): 1,970-2100 mg/kg

Dermal: LD50 (rabbits) >2,000 mg/kg

Inhalation: 77 mg/m³ no effect**Skin irritation:** Non irritant**Eye irritation:** Not considered to be a human eye irritant in normal industrial use.**Carcinogenicity/mutagenicity:** none***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)

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 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

Sodium Sulfite 7757-83-7

Acute toxicity:

Oral LD-50 (rat)

3, 560 mg/kg

Inhalation LC-50 (rabbit)

>5.500 mg/kg - 4 h

Dermal: no data available

Skin irritation: Rabbit

No skin irritation

Eye irritation: Rabbit

Mild eye irritation

Respiratory or Skin Sensitization

Prolonged or repeated exposure may cause allergic skin Reaction in certain sensitive individuals.

Carcinogenicity/mutagenicity:

none

12. ECOLOGICAL INFORMATION

Component information

Boric Acid 10043-35-3

12.1 Toxicity

Toxicity to fish

LC50-Ptychocheilus Lucius – 279 mg/l – 96h

Toxicity to daphnia and other aquatic invertebrates

LC0-Lepomis macrochirus (bluegill) - >1,021 mg/l – 96h

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

12.5 Other adverse effects

None

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

12.3 Bioaccumulative potential

Bioaccumulation Leuciscus idus (golden orfe) – 3d – 50 µg/l
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

MATERIAL SAFETY DATA SHEET



Toxicity to daphnia and other aquatic invertebrates

LC0-Fathead minnow - >179 mg/l – 96h
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

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

Sodium Sulfite 7757-83-7

12.1 Toxicity

Toxicity to fish

LC- Gambusia affinis (Mosquito fish) – 660 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
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

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

California Prop 65 Components

MATERIAL SAFETY DATA SHEET



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.

SCAQMD Rule 443.1

Photochemically Reactive: No
Maximum Grams of VOC per Liter: 0 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
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.