

ARISTA C-41 STABILIZER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **C-41 STABILIZER**

Product Number: **101202, 101222**

Product Use: Photographic fixer component

Customer Information Phone Number:

1-800-292-6137

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

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

Date Reviewed: 04/26/2015

Version 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

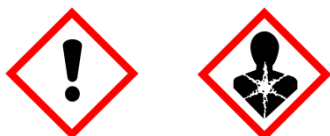
Acute toxicity, Oral (Category 4), H302

Skin sensitization (Category 1), H317

Respiratory sensitization (Category 1), H334

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: DANGER

Hazard statement(s)

H302 Harmful if swallowed

H317 May cause allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P341+ P311 If experiencing respiratory symptoms: call a POISON CENTER or doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents to an approved waste disposal plant.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
HEXAMINE*	100-97-0	N.E.	N.E.	3-7
PHOTOFLO**	MIXTURE	N.E.	N.E.	< 2

* Decomposes as formaldehyde and ammonia
 **Contains Ethylene Glycol

100 mg/m³ Ceiling aerosol

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: Do not induce vomiting. 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.

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. 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. 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**

Avoid breathing vapors, mist or gas. Endure adequate ventilation. 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 strong acids or oxidizing agents. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal.

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: Avoid breathing mists. A respirator should be worn if hazardous decomposition products are likely to be released.

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, typically 10 air changes per hour.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance And Odor: Clear solution; formaldehyde odor

Solubility In Water: Complete

Boiling Point: > 100 °C

Vapor Pressure: 18m Hg @ 20° C

Flash Point: Nonflammable
Specific Gravity: 1.014
Melting Point: Not applicable
Freezing Point: N.E.
Evaporation Rate: N.E.
Vapor Density: 0.6 (Air=1)
Percent Volatile: 92.60
Ph: 9.27
Molecular Weight: Not applicable
Pounds Per Gallon: 8.45
V.O.C. is 12.84 g/L or 1.27% or 0.11 lb./gal.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: High temperatures

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong acids, strong oxidizing agents.

10.6 Decomposition Products

May produce oxides of carbon, and nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Hexamethylenetetramine 100-97-0

Acute toxicity:

LD50 Oral – rat – > 20,000 mg/kg

Dermal:

No data available

Inhalation:

No data available

Skin irritation:

No data available

Eye irritation:

No data available

Respiratory or Skin Sensitization

Maximisation Test – guinea pig – May cause allergic skin reaction

Carcinogenicity

None

Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

12. ECOLOGICAL INFORMATION**Component information*****Hexamethylenetetramine 100-97-0*****12.1 Toxicity**

Toxicity to fish LC50 – Pimephales promelas (fathead minnow) – 49,880 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) 36,000 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 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

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)**

DOT Class: NOT REGULATED

Hazard Class: NONE

UN No.: NOT APPLICABLE

MATERIAL SAFETY DATA SHEET



Packing Group:
Guide No:
Ship Name: PHOTOGRAPHIC STABILIZER

15. REGULATORY INFORMATION

SARA 302 Components

The following components are subject to reporting: 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: 12.84 gm/L
Vapor Pressure: N.E. mmHg@ 20 °C

16. OTHER INFORMATION

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

Acute toxicity, Oral (Category 4), H302
Skin sensitization (Category 1), H317
Respiratory sensitization (Category 1), H334

HMIS RATING

Health: 2
Flammability: 0
Reactivity: 1

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.

ARISTA® C-41 BLIX PART A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **C-41 BLIX PART A**

Product Number: **101202, 101222**

Product Use: Photographic developer.

Customer Information Phone Number:

1-800-292-6137

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

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

Date Reviewed: 04/22/2015

Version 2.0

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

H317 May cause allergic skin reaction

H320 Causes eye irritation

H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing mist

P264 Wash skin thoroughly after handling

P270 Do not eat, drink, or smoke when using this product

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

MATERIAL SAFETY DATA SHEET



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

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
AMMONIUM THIOSULFATE	7783-18-8	N.E.	N.E.	50-60
SODIUM ACETATE	127-09-3	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 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.

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. 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. 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: Clear, colorless solution, ammonia 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: 8.27
Specific Gravity: 1.28 g /ml
Melting Point: Not applicable
Freezing Point: Not established
Evaporation Rate: Not established
Vapor Density: Not established
Percent Volatile: 53.28
Molecular Weight: Not applicable
Pounds Per Gallon: 10.64
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 and alkali

10.6 Decomposition Products

Strong acids will liberate sulfur dioxide, strong bases of sodium hydroxide will liberate ammonia fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Ammonium thiosulfate 7783-18-8

Acute toxicity:

Oral: LD50 (rats): 2,890 mg/kg
Dermal: No data
Inhalation: No data



Skin irritation: Rabbit
Non irritant
Eye irritation: Rabbit
No eye irritation (OECD Test Guideline 405).

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

Ammonium thiosulfate 7783-18-8

12.1 Toxicity

Toxicity to fish	LC0-Lepomis macrochirus (bluegill) - 510 mg/l – 96h
Toxicity to daphnia and other aquatic invertebrates	LC50 – Daphnia magna (Water flea) – 230 mg/l – 21d
Toxicity to algae	EC50 – Pseudokirchneriella subcapitata - > 100 mg/l – 72 h (OECD Test Guideline 201).
Toxicity to bacteria	Respiration inhibition EC50 – Sludge Treatment - > 1,000 mg/l – 3h (OECD Test Guideline 201).

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 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

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: 18 mm Hg@ 20 Degrees C

16. OTHER INFORMATION**Full text of H-statements referred to under sections 2 and 3.**

H305	May be harmful if swallowed and enters airways (Category 2)
H314	Causes skin irritation (Category 2)
H317	May cause allergic skin reaction (Category 1)
H320	Causes eye irritation (Category 2B)
H335	May cause respiratory irritation (Category 3)

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.

ARISTA® C-41 BLIX PART B

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **C-41 BLIX PART B**

Product Number: **101202, 101222**

Product Use: Photographic fixer component

Customer Information Phone Number:

1-800-292-6137

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

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

Date Reviewed: 04/22/2015

Version 2.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Causes severe skin burns and eye damage (Skin Corr. 1B) H314

Skin sensitization (Category 2), H318

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: DANGER

Hazard statement(s)

H314 Causes severe skin burns and eye damage

Precautionary statement(s)

P264 Wash skin thoroughly after handling

P270 Do not eat, drink, or smoke when using this product

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312 IF SWALLOWED; call a POISON CENTER or doctor/physician Do NOT induce vomiting

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

MATERIAL SAFETY DATA SHEET



P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse
P391 Collect spillage

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
ACETIC ACID	64-19-7	25 mg/m ³	25 mg/m ³ TWA 37 mg/m ³ STEL	20-25

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: Do not induce vomiting. 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.

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.

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. 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. Do not store with strong acids. 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: 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, typically 10 air changes per hour.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance And Odor: Clear, colorless liquid with a strong vinegar 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: Not established
Ph: 1.82
Specific Gravity: 1.032 g/ml
Melting Point: Not applicable
Freezing Point: Not established
Evaporation Rate: Not established
Vapor Density: Not established
Percent Volatile: 100.0
Molecular Weight: Not applicable
Pounds Per Gallon: 8.6
V.O.C. is 246.94 g/L or 23.93%, or 2.06 lb. /gal.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: High temperatures

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong oxidizers and reducing agents.

10.6 Decomposition Products

May produce oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Acetic Acid 64-19-7

Acute toxicity:

Oral: LD50 (rats): 3,310 mg/kg
Dermal: LD50 (Rabbit) – 4h – 11.4 mg/l
Inhalation: LC50 (Mouse) – 1h – 5620 ppm
LC50 (Rat) – 4h -11.4 mg/l

Skin irritation: No data available

Eye irritation: Rabbit
Corrosive to eyes



Respiratory or skin sensitization No data available

Carcinogenicity/mutagenicity: none

Reproductive toxicity: No data available

Specific target organ toxicity – repeated exposure – No data available

Aspiration hazard - No data available

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

Reproductive toxicity

No data available No data available

Specific target organ toxicity - single exposure

No data available Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available

12. ECOLOGICAL INFORMATION

Component information

Acetic Acid 64-19-7

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.

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)

DOT Class: Acetic Acid solution, *with more than 10 percent and less than 50 percent acid, by mass.*

Hazard Class: 8

UN No.: 2790

Packing Group: III

Guide No: 154

Ship Name: Acetic Acid solution, *with more than 10 percent and less than 50 percent acid, by mass.*

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

Ship Name: NOT APPLICABLE

15. REGULATORY INFORMATION

SARA 302 Components

The following components are subject to reporting: 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

MATERIAL SAFETY DATA SHEET



All ingredients in this finished product are listed on the EPA TSCA INVENTORY.
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: 246.94 gm/L
Vapor Pressure: N.E. mmHg@ 20 °C

16. OTHER INFORMATION (HMIS)

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

Causes severe skin burns and eye damage (Skin Corr. 1B) H314
Skin sensitization (Category 2), H318

HMIS RATING

Health: 3
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.

ARISTA® C-41 BLIX PART C

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **C-41 BLIX PART C**

Product Number: **101202, 101222**

Product Use: Photographic fixer component

Customer Information Phone Number:

1-800-292-6137

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

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

Date Reviewed: 04/26/2015

Version 2.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

May cause slight eye irritation H320

May cause skin irritation H314

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H314 May cause skin irritation

H320 May cause slight eye irritation

Precautionary statement(s)

P264 Wash skin thoroughly after handling

P270 Do not eat, drink, or smoke when using this product

P280 Wear protective gloves, eye protection

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.

P333 +P313 If skin irritation or rash occurs: Get medical advice/attention.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
FERRIC AMMONIUM EDTA	21265-50-9	50 ppm	25 ppm	90-100

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.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use agent appropriate for surrounding fire.

5.2 Special Hazards arising from substance or mixture

Not considered a fire hazard. When involved in a fire, does not contribute any unusual hazards. Fire or excessive heat may cause production of hazardous decomposition products.

Combustion Products: Carbon dioxide, carbon monoxide.

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. 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: Reddish brown solution; ammonia 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

Specific Gravity: 1.32

Vapor Pressure: 18m Hg @ 20°C

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: N.E.
Vapor Density: N.E.
Evaporation Rate: Not established
Vapor Density: Not established
Percent Volatile: 53.01
Ph: 7.40
Pounds Per Gallon: 10.99
Molecular Weight: Not applicable
V.O.C. is 0.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: Metals such as aluminum, copper, copper alloys, nickel, and zinc.
Aqueous solution in contact with aluminum evolves hydrogen.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong oxidizers, alkalis, acids.

10.6 Decomposition Products

May produce oxides of nitrogen, carbon dioxide, carbon monoxide, and ammonia.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Ferric Diammonium EDTA 68413-60-5

Acute toxicity:

Oral: LD50 (rats): is expected to be greater than 5,000 mg/kg based on similar products.
Dermal: No data
Inhalation: No data

Skin irritation: Rabbit
Non irritant

Eye irritation: Rabbit
No eye irritation (OECD Test Guideline 405).

Carcinogenicity/mutagenicity: none

12. ECOLOGICAL INFORMATION

Component information

Ferric Diammonium EDTA 68413-60-5

12.1 Toxicity

No experimental ecological data are available for the mixture as such. From structurally related products, the following may be expected.

Toxicity to fish	LC0-Oncorhynchus mykiss - > 100 mg/l – 96h
Toxicity to daphnia	EC50 – Daphnia magna (Water flea) → 100 mg/l – 48h
Toxicity to algae	EC50 – Pseudokirchneriella subcapitata - > 100 mg/l – 72 h (OECD Test Guideline 201).

12.2 Biodegradation

This product is not readily biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation in fish and other aquatic species is not expected due to the high water solubility.

12.4 Chemical fate

This product is not expected to undergo hydrolysis. The substance is not expected to enter the atmosphere significantly due to its high water solubility.

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.

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

MATERIAL SAFETY DATA SHEET



SARA 313 Components

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

SARA 311/312 Hazards

None

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: 18 mm Hg@ 20 Degrees C

16. OTHER INFORMATION

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

H314 May cause skin irritation
H320 May cause slight eye 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.

ARISTA® C-41 DEVELOPER PART A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **C-41 DEVELOPER PART A**

Product Number: **101202, 101222**

Product Use: Photographic developer.

Customer Information Phone Number:

1-800-292-6137

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

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

Date Reviewed: 04/04/2015

Version 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific organ toxicity Oral (Category 3), Respiratory H335

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary statement(s)

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

MATERIAL SAFETY DATA SHEET



- 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
P304 +P340 IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330 Rinse mouth.
P333 +P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: 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 CARBONATE	584-08-7	N.E.	N.E.	10-15
TRISODIUM HEDTA	139-89-9	N.E.	N.E.	1-5
GLACIAL ACETIC ACID	64-19-7	10 ppm TWA	10 ppm TWA	1-3
SODIUM SULFITE	7757-83-7	N.E.	N.E.	<1

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: Do not induce vomiting. 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.

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 sulfur.

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. 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. Do not store with strong acids. 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: Colorless liquid with 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: Not established

Ph: 10.52

Specific Gravity: 1.14 g /ml

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: > 1

Vapor Density: Not established

Percent Volatile: 80.06

Molecular Weight: Not applicable

Pounds Per Gallon: 9.46

V.O.C. is 19.63 g/L or 1.73% or 0.16 lb./gal.

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

High temperatures

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

Potassium Carbonate 584-08-7

Acute toxicity:

LD50 Oral – rate – 1970 mg/kg

Dermal:

No data available

Inhalation:

No data available

Skin irritation:

No data available

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 LD-50 (rat)

>5,500 mg/m³ - 4 h

Dermal: no data

Skin irritation:

Skin – rabbit

Result: No skin irritation

Eye irritation:

Skin – rabbit

Result: No skin irritation

Respiratory or Skin Sensitization

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

Carcinogenicity/mutagenicity: none

12. ECOLOGICAL INFORMATION

Component information

Potassium Carbonate 584-08-7

12.1 Toxicity

Toxicity to fish

LC50- Pimephales promelas (fathead minnow) -510 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

LC50- *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: 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: 19.63 gm/L g/L

Vapor Pressure: N.E. 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

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific organ toxicity Oral (Category 3), Respiratory H335

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.

ARISTA® C-41 DEVELOPER PART B

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **C-41 DEVELOPER PART B**

Product Number: **101202, 101222**

Product Use: Photographic developer.

Customer Information Phone Number:

1-800-292-6137

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

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

Date Reviewed: 04/04/2015

Version 2.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Corrosive to metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Skin sensitization (Category1), H317

Specific organ toxicity Oral (Category 2), H373

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H290	May be corrosive to metals
H302 H312	Harmful if swallowed or in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Precautionary statement(s)

P261	Avoid breathing mist
------	----------------------

MATERIAL SAFETY DATA SHEET



- 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.
P330 Rinse mouth.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: 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

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
Hydroxylamine sulfate	10039-54-0	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. 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: Do not induce vomiting. 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.

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 sulfur.

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. 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. Do not store with strong acids. 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: Colorless liquid with 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: Not established

Ph: 3.71

Specific Gravity: 1.018 g /ml

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: > 1

Vapor Density: 0.6 (air=1)

Percent Volatile: 97.0

Molecular Weight: Not applicable

Pounds Per Gallon: 8.48

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

Free hydroxylamine is produced when heated, particularly with alkalis.

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Bases and strong oxidizing agents.

10.6 Decomposition Products

May produce oxides of sulfur, carbon, ammonia.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Hydroxylamine sulfate 10039-54-0

Acute toxicity:

LD50 Oral – rat – 642 mg/kg

Dermal:

LD50 Dermal – rabbit – >1,500 - <2,000 mg/kg

Inhalation:

No data available

Skin irritation:

Skin-rabbit

Result: Irritating to skin

Eye irritation:

Eyes – rabbit

Result: No eye irritation – 24h

Respiratory or Skin Sensitization

Maximisation Test – guinea pig

Result: May cause sensitization by skin contact.

Carcinogenicity

Carcinogenicity – rat- Oral

Endocrine: Adrenal cortex hyperplasia

No suspected human carcinogens

Germ cell mutagenicity

Mouse

Result: negative

12. ECOLOGICAL INFORMATION

Component information

Hydroxylamine sulfate 10039-54-0

12.1 Toxicity

Toxicity to fish mortality LC50- Pimephales promelas (fathead minnow) -7.2 mg/l – 96h

Toxicity to daphnia EC50 – Daphnia magna (Water flea) – 1.62 mg/l -48h

Toxicity to algae EC50 – Desmodium subspicatus- 0.72 mg/l -72h

Toxicity to bacteria Respiration inhibition ED50 – Sludge Treatment – 54 mg/l – 180 min

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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

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: 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 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.**

Corrosive to metals (Category 1), H290
Acute toxicity, Oral (Category 4), H302
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitization (Category1), H317
Specific organ toxicity Oral (Category 2), H373

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.

ARISTA® C-41 DEVELOPER PART C

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Freestyle Photographic Supplies

5124 Sunset Blvd., Hollywood, CA 90027

Product Name: **C-41 DEVELOPER PART C**

Product Number: **101202, 101222**

Product Use: Photographic developer.

Customer Information Phone Number:

1-800-292-6137

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

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

Date Reviewed: 04/04/2015

Version 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 4), H302

Causes severe skin burns and eye damage (Skin Corr. 1B) H314

Serious eye damage (Category 1), H314

Skin sensitization (Category 2), H317

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 2), H351

Harmful to aquatic life (Category 3), H402

Chronic aquatic toxicity (Category 1), H410

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: DANGER

Hazard statement(s)

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause allergic skin reaction
H318	Causes severe eye damage
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer

MATERIAL SAFETY DATA SHEET



H402 Harmful to aquatic life.
H410 Very toxic to aquatic life

Precautionary statement(s)

P201 Obtain special instructions before use
P260 Do not breathe dust or 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/ protective clothing/ eye protection/ face protection.
P301 + P312 IF SWALLOWED; call a POISON CENTER or doctor/physician Do NOT induce vomiting
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P337 + P313 If eye irritation persists: 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 %
CD4	25646-77-9	15 mg/m ³ (dust)	10 mg/m ³	5-10
SODIUM METABISULFITE	7681-57-4	N.E.	5 mg/m ³	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. 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: Do not induce vomiting. 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.

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. 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. 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. Do not store with strong acids. 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: 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, typically 10 air changes per hour.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance And Odor: Light straw color, sharp vinegar 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: Not established

Ph: 2.42

Specific Gravity: 1.036 g/ml

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: > 1

Vapor Density: 0.6 (air=1)

Percent Volatile: 91.32

Molecular Weight: Not applicable

Pounds Per Gallon: 8.63

V.O.C. is 0.

10. STABILITY AND REACTIVITY**10.1 Reactivity**

Stable

10.2 Chemical stability

Conditions To Avoid: High temperatures

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Bases and strong 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

CD-4 25646-77-9

Acute toxicity:

LD50 Oral – rat – 35 mg/kg

Dermal:

No data available

Inhalation:

No data available

Skin irritation:

No data available

Eye irritation:

No data available

Respiratory or Skin Sensitization

No data available

Carcinogenicity

No data available

Germ cell mutagenicity

No data available

Sodium Metabisulfite 7681-57-4

Acute toxicity:

No data available

LD50 Oral - Rat - 1,540 mg/kg (OECD Test Guideline 401)

Inhalation: No data available Inhalation:

Dermal: No data available

LD50 Dermal - Rat - > 2,000 mg/kg

Skin corrosion/irritation :

No data available

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Risk of serious damage to eyes. (OECD Test Guideline 405)

Respiratory or skin sensitisation

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

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium sulphite) **IARC: 3** - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium metabisulphite)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

Reproductive toxicity

No data available No data available

Specific target organ toxicity - single exposure

No data available Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

No data available

12. ECOLOGICAL INFORMATION**Component information****CD-4 25646-77-9**

Data is available on the adverse effects of this material on the environment. Neither COD nor BOD data are available... Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant in limited quantities. However, such treatment should be evaluated and proved for each specific biological system.

Sodium Metabisulfite 7681-57-4**12.1 Toxicity**

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 150 - 220 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) 89 mg/l - 24 h

Toxicity to algae IC50 - Desmodesmus subspicatus (green algae) - 48 mg/l - 72 h

Toxicity to bacteria - Pseudomonas putida - 56 mg/l - 17 h 12.2

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 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

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

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)**

DOT Class: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(Contains: Ethanol, 2-[(4-Amino-3-Methylphenyl)Ethylamino]-, Sulfate (1:1) (salt)

Hazard Class: 8

UN No.: 3265

Packing Group: III

Guide No: 153

Ship Name: PHOTOGRAPHIC DEVELOPER

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

Ship Name: NOT APPLICABLE

Not regulated

15. REGULATORY INFORMATION**SARA 302 Components**

The following components are subject to reporting: 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

MATERIAL SAFETY DATA SHEET



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 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
Causes severe skin burns and eye damage (Skin Corr. 1B) H314
Serious eye damage (Category 1), H314
Skin sensitization (Category 2), H317
Germ cell mutagenicity (Category 2), H341
Carcinogenicity (Category 2), H351
Harmful to aquatic life (Category 3), H402
Chronic aquatic toxicity (Category 1), H410

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.