

# 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**

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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 – Desmodesmus 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.