

SAFETY DATA SHEET

D6 FIRST DEVELOPER – DAYLIGHT CHROME BATH

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: **Cinestill Inc.**

100 Latona Road, Rochester, NY 14652

Product Name: **D6 FIRST DEVELOPER – CHROME**

Product Number: **D6, 10131**

Product Use: First Developer Bath- Daylight Chrome Bath (Neutral-Tone)

Customer Information Phone Number: 1-877-247-3456

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

Date Reviewed: 4/9/2020

Version: 1.0

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

Acute aquatic toxicity (Category 3), H402

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
H402	Harmful to aquatic life

Precautionary statement(s)

P261	Avoid breathing mist
P264	Wash skin thoroughly after handling
P270	Do not eat, drink, or smoke when using this product

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- 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
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 Hydroquinone Sulfonate	21799-87-1	15 mg/m ^{3*}	10 mg/m ^{3*}	<1
Potassium Metabisulfite	16731-55-8	N.E.	5 mg/m ³	<1
Potassium Carbonate	584-08-7	N.E.	N.E.	<1
Potassium Hydroxide	1310-58-3	2 mg/m ³	2 mg/m ³	<1
Sodium Bicarbonate	144-55-8	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: Expected to be a low hazard for recommended handling. 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.

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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, sulfur, and potassium

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.

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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, yellow solution, slight odor.

Solubility In Water: Complete

Boiling Point: >100°C

Flash Point: Nonflammable

Vapor Pressure: 18 mm Hg @ 20°C

Ph: 9.7

Specific Gravity: 1.12 g /ml

Melting Point: Not applicable

Freezing Point: Not established

Evaporation Rate: Not established

Vapor Density: 0.6

Percent Volatile: 81.2

Molecular Weight: Not applicable

Pounds Per Gallon: 9.34

VO.C. = 0

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable

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, carbon, potassium

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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

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 Metabisulfite 16731-55-8

Acute toxicity:

Oral LD-50 (rat) > 2,000 mg/kg

Inhalation LD-50 (rat) No data available

Dermal: No data available

Skin irritation: No data available**Eye irritation:**

Eye – rabbit

Result: Risk of serious damage to eyes

Respiratory or Skin Sensitization No data available**Carcinogenicity/mutagenicity:** none**Reproductive toxicity;**

Rat (Oral): Effects on Newborn: Growth statistics – reduced weight gain

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Potassium Hydroquinone Sulfonate 21799-87-1

Acute toxicity:

Oral LD-50 (rat) No data available

Inhalation LD-50 (rat) No data available

Dermal: No data available

Skin irritation: No data available

Eye irritation: No data available

Respiratory or Skin Sensitization No data available

Carcinogenicity/mutagenicity: none

Reproductive toxicity: No data available

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

Potassium Hydroxide 45% 1310-58-3

12.1 Toxicity

Toxicity to fish LC50-Cyprinodon variegatus (sheephead minnow)
– 540 mg/l – 96h

Toxicity to daphnia and
other aquatic invertebrates LC0-Fathead minnow – 1,460 mg/l – 96h
LC50 – Daphnia magna (Water flea) – < 4.2 mg/l – 11d
EC50 – Daphnia magna (Water flea) -55 mg/l – 48 h

12.2 Persistence and degradability

Biodegradability Result: > 90% - Readily biodegradable

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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

12.6 Other adverse effects

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

Potassium Metabisulfite 16731-55-8

12.1 Toxicity

Toxicity to fish LC50- Danio rerio (zebra fish) -464-1,000 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

Potassium Hydroquinone Sulfonate 21799-87-1

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

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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

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 gm/L 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

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Specific organ toxicity Oral (Category 3), Respiratory H335

Acute aquatic toxicity (Category 3), H402

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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.

SAFETY DATA SHEET

T6 TUNGSTEN CHROME – 1ST DEVELOPER POWDER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Cinestill Inc.

100 Latona Road, Rochester, NY 14652

Product Name: **T6 DYNAMIC CHROME – 1ST DEVELOPER POWDER**

Product Number: **T6, 10214P**

Product Use: 1st Developer Bath for TungstenChrome Slides

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 4/09/2020

Version: 1.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Harmful by ingestion (Acute toxicity (Oral) Category 4 for Hydroquinone), H302

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)

H302 Harmful if swallowed

H314 Causes skin irritation

H320 Causes eye irritation

Precautionary statement(s)

P234 Do not breathe dust or mist

P264 Wash skin thoroughly after handling

P280 Wear protective gloves, eye protection

P301 + P330- + P331 IF SWALLOWED: Rinse mouth. No NOT induce vomiting. Immediately call a POISON CENTR or doctor/physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
SODIUM SULFITE	7757-83-7	N.E.	5 mg/m ³	50-60
POTASSIUM BROMIDE	7758-02-3	N.E.	N.E.	20-25
HYDROQUINONE	123-31-9	2mg/m ³	1 mg/m ³	10-15
LITHIUM HYDROXIDE MONOHYDRATE	1310-66-3	N.E.	N.E.	3-5

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 while holding eyelids apart.

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

Ingestion: Seek medical attention or contact a poison control center for advice about whether to induce vomiting. If conscious, give two glasses of water. If individual is drowsy or unconscious, do not give anything by mouth. Place individual on left side with head down.

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

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 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. **For spill after mixed with water.** For small amounts less than a 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. Dry spills should be swept up and mixed with water.

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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.

Ventilation protection: Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance And Odor: Solid white powder, no odor.

Solubility In Water: Complete

Boiling Point: >100° C

Flash Point: Nonflammable

Vapor Pressure: 18mm Hg @ 20° C

Ph: Not available

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Specific gravity: Mixed 1.1
Melting Point: Not applicable
Freezing Point: Not established
Evaporation Rate: Not established
Percent Volatile: Not applicable
Molecular Weight: Not applicable
Pounds Per Mix when not diluted 87.87 g
V.O.C. is 0.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reacts with acids

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available. Pure potassium bromide is hygroscopic.

10.5 Incompatible Materials

Strong acids. Pure potassium bromide reacts to bromine trifluoride.

10.6 Decomposition Products

May produce oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

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

Hydroquinone 123-31-9

Acute toxicity:

Oral LD-50 (rat) 367.3 mg/kg (OECD Test Guidance 401)

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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 Bromide 7758-02-3

Acute toxicity:

Oral LD-50 (rat) 3,070 mg/kg

Inhalation: No data available

Dermal: No data available

Skin irritation:

Skin – No data available

Eye irritation:

No data available

Respiratory or Skin Sensitization

No data available

Carcinogenicity/mutagenicity: none

Lithium Hydroxide Monohydrate 1310-66-3

Acute toxicity:

LD50 Oral (rat) 368 mg/kg

LC50 Inhalation(rat) > 6.15 mg/l - 4h (OECD Test Guideline 403)

Dermal: no data available

Skin corrosion/irritation

Skin - in vitro assay

Result: Corrosive (In Vitro Membrane Barrier Test Method for Skin Corrosion - CORROSITEX)

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Not mutagenic in Ames Test. mouse lymphocyte Result: negative

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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 Lithium and its compounds are possible teratogens by analogy to lithium carbonate which has equivocal human teratogenic data and positive animal teratogenic data. 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

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12. ECOLOGICAL INFORMATION

Component information

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

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 No data available
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

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

Potassium Bromide 7758-02-3

12.1 Toxicity

Toxicity to fish LC50- *Pimephales promelas* (fat minnow)- > 30 mg/l – 96h

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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

12.6 Other adverse effects

None

Lithium Hydroxide Monohydrate 1310-66-3

12.1 Toxicity

Toxicity to fish	LC50 - Danio rerio (zebra fish) - 109 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	LC50 – Daphnia magna (Water flea) – ca. 33.5 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	EC50 – Pseudokirchneriella subcapitata (green algae) - 41.62 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	EC50 - Sludge Treatment - ca. 316.8 mg/l - 3 h (OECD Test Guideline 209) Respiration inhibition

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Does not bioaccumulate

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

12.6 Other adverse effects

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

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Preferred options for disposal are to send to licensed reclaimers. 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

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.

H302 Harmful by ingestion (Acute toxicity (Oral) Category 4 for Hydroquinone)
H314 Causes skin irritation (Category 2)

Date: 4/13/20

T6 Tungsten Chrome 1st Developer Powder

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H320 Causes eye irritation (Category 2B)

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.

SAFETY DATA SHEET

D9 DYNAMIC CHROME 1st DEVELOPER BATH

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Cinestill Inc.

100 Latona Road, Rochester, NY 14652

Product Name: **D9 DYNAMIC CHROME 1st DEVELOPER POWDER**

Product Number: **D9, 10215P**

Product Use: 1st Developer Chrome Bath for Slides

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 4/14/2020

Version: 1.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 4), H302

Serious eye irritation (Category 2), H319

Skin sensitization (Category 1), H317

Germ cell mutagenicity (Category 2), H341

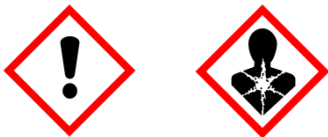
Carcinogenicity (Category 2), H351

Specific organ toxicity Oral (Category 2), Kidney, H373

Acute aquatic toxicity (Category 1), H400

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause allergic skin reaction
H318	Causes severe eye damage
H335	May cause respiratory irritation
H361	Suspected of causing genetic defects
H351	Suspected of causing cancer
H373	Specific organ toxicity – repeated exposure, Oral (Category 2), Kidney
H410	Very toxic to aquatic life

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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.
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>
SODIUM SULFITE	7757-83-7	5mg/m ^{3*}	5mg/m ^{3*}	85-95
BORAX	12179-04-3	5mg/m ^{3*}	10/m ^{3*}	1-5
HYDROQUINONE	123-31-9	2mg/m ³	2mg/m ³	1-3

* respirable dust

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. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

SAFETY DATA SHEET

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. 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.

Stop the spillage. Pick up and arrange disposal without creating dust. Sweep up and shovel.

If in working solution 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. 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.

SAFETY DATA SHEET

Personal protective equipment

Eye Protection: Safety glasses with side shields (or goggles).

Respiratory Protection: Avoid breathing dust. Wear approved dust filter respirator if TLV is to be exceeded. Use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.

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: Yellow solid, no odor

Solubility In Water: Complete

Boiling Point: Not applicable

Flash Point: Noncombustible solid

Flash Point Method: Not applicable

Auto ignition: Not applicable

LEL: Not applicable

UEL: Not applicable

Vapor Pressure: Negligible

Ph: Not applicable

Specific Gravity in Solution: N.E.

Melting Point: Not available

Freezing Point: N.E.

Evaporation Rate: Not applicable

Vapor Density: Not applicable

Percent Volatile: 0

Molecular Weight: Not established

Pounds Per Gallon in Solution: N.E.

V.O.C. is 0.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: Moisture

10.3 Possibility of hazardous reactions

No data available

SAFETY DATA SHEET

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong acids will liberate sulfur dioxide, carbon dioxide.

10.6 Decomposition Products

May produce oxides of sulfur and carbon

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

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

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

Borax pentahydrate 12179-04-3

Acute toxicity:

LD50 (rats) 3,200 to 3,500 mg/kg

Skin corrosion/irritation:

Dermal LD50 (rabbits) 2,000 mg/kg

SAFETY DATA SHEET

Borax pentahydrate is poorly absorbed through intact skin. Non-irritant.

Serious eye damage/ irritation:

Borax pentahydrate is a serious eye irritant.

Respiratory or skin sensitization:

Borax pentahydrate is not a skin sensitizer.

Germ cell mutagenicity / carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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 :Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. The doses administered were many times in excess of those which humans would normally be exposed to.

12. ECOLOGICAL INFORMATION

Component information

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/g No data available
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

SAFETY DATA SHEET

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

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

12.6 Other adverse effects

None

Borax pentahydrate 12179-04-3

12.1. Toxicity Phytotoxicity

Boron is an essential micronutrient for healthy growth of plants; however, it can be harmful to boron sensitive plants in higher quantities. Care should be taken to minimise the amount of borate product released to the environment.

Algal toxicity

Green algae, *Pseudokirchneriella subcapitata* (Hansveit and Oldersma, 2000) 72-hr EC50 –biomass = 40 mg B/L, or 229 mg boric acid/L.

Invertebrate toxicity

Daphnia, Daphnids, *Daphnia magna* (Gersich, 1984a) 48-hr LC50 = 133 mg B/L or 760 mg boric acid/L or 619 mg disodium tetraborate , anhydrous/L

Fish toxicity Fish, Fathead minnow, *Pimephales promelas* (Soucek et al., 2010) 96-hr LC50 = 79.7 mg B/L or 456 mg boric acid/L or 370 mg disodium tetraborate, anhydrous

12.2. Persistence and degradability

Boron is naturally occurring and ubiquitous in the environment. Borax is a naturally occurring borate.

12.3. Bio-accumulative potentia

Not significantly bio-accumulative.

12.4. Mobility in soil

The product is soluble in water and is leachable through normal soil.

SAFETY DATA SHEET

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)

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

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

SAFETY DATA SHEET

16. OTHER INFORMATION

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

Acute toxicity, Oral (Category 4), H302
Serious eye irritation (Category 2), H319
Skin sensitization (Category 1), H317
Acute aquatic toxicity (Category 1), H400

HMIS RATING

Health: 1
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.

SAFETY DATA SHEET

CR6 COLOR & REVERSAL BATH PART A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Cinestill Inc.

100 Latona Road, Rochester, NY 14652

Product Name: **CR96 COLOR & REVERSAL BATH PART A**

Product Number: **CR6, 10130**

Product Use: Color Developer 7 Reversal Bath Solution

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 4/9/2020

Version: 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 3), H301

Eye irritation (Category 2), H319

Skin irritation (Category 2), H315

Acute aquatic toxicity (Category 3), H402

Chronic aquatic toxicity (Category 3), H412

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: DANGER

Hazard statement(s)

H301	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P201	Obtain special instructions before use
P261	Avoid breathing mist
P264	Wash skin thoroughly after handling

SAFETY DATA SHEET

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.
P332 + 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
P501 Dispose of contents to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
POTASSIUM HYDROXIDE	1310-58-3	N.E.	2mg/m ³ CEILING	5-10
MONOSODIUM PHOSPHATE	7558-80-7	5 mg/m ³ *	N.E.	5-10
PENTASODIUM SALT MIXTURE	2235-43-0	N.E.	N.E.	1-3

* Particulates not otherwise regulated respirable fraction.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Corrosive to eyes. Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids apart. DO NOT contact lenses, if worn. Get immediate medical attention, preferably from an ophthalmologist if irritation persists.

Inhalation: Expected to be a low hazard for usual industrial or commercial handling by trained personnel. Inhalation of the mist could cause respiratory irritation. If symptomatic, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: May be harmful if swallowed. Alkaline nature of solution may cause irritation or corrosion to digestive tract, including perforation of mucous membranes of the mouth, throat, esophagus and stomach. 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: Can cause burns. 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

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.

SAFETY DATA SHEET

Combustion Products: Carbon dioxide, carbon monoxide, and potassium oxides

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. Neutralize with a weak acid solution. Avoid splashing or misting which could increase health hazards. 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. Discharge to sewer requires approval of permitting authority and may require pre-treatment.

6.2 Environmental precautions

Prevent liquid from entering sewers, waterways or low areas. Discharge to sewer requires approval of permitting authority and may require pre-treatment. Contaminated surfaces should be cleaned using water.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Store in a cool, dry, well-ventilated area. Keep containers closed. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.

7.2 Conditions for safe storage, including any incompatibles

Do not store with incompatible materials. All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal. Dispose of in a licensed facility.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

See Section 3.

8.2 Exposure controls

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal protective equipment

Eye Protection: Face shield and safety glasses with side shields (or goggles).

Respiratory Protection: If use conditions generate vapors or fumes, use a NIOSH approved Multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridge as a backup to engineering controls.

SAFETY DATA SHEET

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

Body protection: Rubber or plastic apron.

Ventilation protection: Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance And Odor: Clear slight yellow, odorless liquid.

Solubility In Water: Complete

Boiling Point: >100°C

Vapor Pressure: 18 mm Hg @ 20°C

Ph: 13.48 (1+1) = 13.14

Specific Gravity: 1.13 g /ml

Melting Point: Not applicable

Freezing Point: Not established

Evaporation Rate: Not established

Vapor Density: 0.6 (air=1)

Percent Volatile: 81.93

Molecular Weight: Not applicable

Pounds Per Gallon: 9.43

V.O.C. = 0

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong acids. Common metals other than stainless steel.

10.6 Decomposition Products

May produce oxides of carbon

SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

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

Monosodium Phosphate 7558-80-7

Acute toxicity:

Oral LD-50 (rat)

No data available

Inhalation LC-50 (rabbit)

No data available

Dermal:

No data available

Skin irritation: Rabbit

No data available

Eye irritation: Rabbit

No data available

Respiratory or Skin Sensitization

No data available

Carcinogenicity/mutagenicity:

none

12. ECOLOGICAL INFORMATION

Component information

Potassium Hydroxide 45% 1310-58-3

12.1 Toxicity

Toxicity to fish

LC50-Cyprinodon variegatus (sheephead minnow)
– 540 mg/l – 96h

Toxicity to daphnia and
other aquatic invertebrates

LC0-Fathead minnow – 1,460 mg/l – 96h
LC50 – Daphnia magna (Water flea) – < 4.2 mg/l – 11d
EC50 – Daphnia magna (Water flea) -55 mg/l – 48 h

12.2 Persistence and degradability

Biodegradability

Result: > 90% - Readily biodegradable

SAFETY DATA SHEET

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. Harmful to aquatic life.

Monosodium Phosphate 7558-80-7

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

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)

Ship Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Potassium Hydroxide)

Hazard Class: 8

UN No.: 3266

Packing Group: II

Guide No: 154

SAFETY DATA SHEET

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 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 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 3), H301
Eye irritation (Category 2), H319
Skin irritation (Category 2), H315
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412
Acute toxicity, Oral (Category 3), H301

SAFETY DATA SHEET

HMIS RATING

Health: 3

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.

SAFETY DATA SHEET

CR6 COLOR & REVERSAL BATH PART B

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: **Cinestill Inc.**

100 Latona Road, Rochester, NY 14652

Product Name: **CR96 COLOR & REVERSAL BATH PART B**

Product Number: **CR6, 10130**

Product Use: Color Developer & Reversal Bath Solution

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 4/9/2020

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

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

SAFETY DATA SHEET

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

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
CD3	25646-71-3	N.E. (dust)	N.E.	10-20
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.

SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Nonflammable. Water spray, carbon dioxide, dry chemical, alcohol foam.

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, oxides of sulfur, oxides of nitrogen.

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. Prevent liquid from entering sewers, waterways or low areas. May require neutralization if pH < 2.0. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material.

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.

SAFETY DATA SHEET

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, sulfur dioxide odor.

Solubility In Water: Complete

Boiling Point: >100°C

Flash Point: Nonflammable

Vapor Pressure: 18 mm Hg @ 20°C

Ph: 1.76

Specific Gravity: 1.09/ml

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: N.E.

Vapor Density: 0.6 (air=1)

Percent Volatile: 78.13

Molecular Weight: Not applicable

Pounds Per Gallon: 9.11

V.O.C. = 0

10. STABILITY AND REACTIVITY

10.1 Reactivity

None Stable

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

May produce oxides of sulfur, carbon, and nitrogen.

10.4 Conditions to avoid

None

10.5 Incompatible Materials

Bases and strong oxidizing agents.

SAFETY DATA SHEET

10.6 Decomposition Products

May produce oxides of sulfur, carbon, and nitrogen.

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

CD-3 25646-71-3

Product is harmful by ingestion.

Acute toxicity:

LD50 Oral – rat – 248 (female)/ 400 (male) 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

SAFETY DATA SHEET

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-3 25646-71-3

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Product is not biodegradable.

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.

SAFETY DATA SHEET

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: Methanesulfonamide, N-[2-[(4-Amino-3-Methylphenyl)Ethylamino-ethyl] - , Sulfate (2:3)

Hazard Class: 8

UN No.: 3265

Packing Group: II

Guide No: 153

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

Ship Name: PHOTOGRAPHIC DEVELOPER

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.

SAFETY DATA SHEET

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
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.

SAFETY DATA SHEET

Bf6 BLEACHES & FIXER BATH PART A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: **Cinestill Inc.**

100 Latona Road, Rochester, NY 14652

Product Name: **Bf6 Bleaches & Fixer Bath Part A**

Product Number: **Bf6, 10128**

Product Use: Pre-Bleach & Blix Bath

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 4/9/2020

Version: 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Causes eye irritation (Category 2B), H320

Causes skin irritation (Category 2), H314

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H305 May be harmful if swallowed and enters airways/

H314 Causes skin irritation

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

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.	65-75
SODIUM SULFITE	7757-83-7	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 while holding eyelids apart. DO NOT remove contact lenses, if worn. 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: Seek medical attention or contact a poison control center for advice about whether to induce vomiting. If conscious, give two glasses of water. If individual is drowsy or unconscious, do not give anything by mouth. Place individual on left side with head down.

Skin Contact: Flush skin with plenty of water and wash with a non-alkaline skin cleaner. Wash contaminated clothes before reuse. Get medical attention if irritation develops.

Aggravated Medical Conditions: Skin contact may aggravate an existing dermatitis.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Nonflammable -Use agent appropriate for surrounding fire.

5.2 Special Hazards arising from substance or mixture

Fire or excessive heat may cause production of hazardous decomposition products.
Combustion Products: Carbon dioxide, carbon monoxide, and oxides of sulfur 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

SAFETY DATA SHEET

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.

Ventilation protection: Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance And Odor: Clear, colorless solution; ammonia odor.

SAFETY DATA SHEET

Solubility In Water: Complete
Boiling Point: 100° C
Specific Gravity: 1.24
Vapor Pressure: 18m Hg @ 20° C
Melting Point: Not applicable
Freezing Point: Not established
Evaporation Rate: Not established
Vapor Density: Not established
Percent Volatile: 56.56
Ph: 7.38
Molecular Weight: Not applicable
Pounds Per Gallon: 10.33
V.O.C. = 0

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: None

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Strong acids and alkali.

10.5 Incompatible Materials

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

10.6 Decomposition Products

May produce oxides of sulfur and ammonia.

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

SAFETY DATA SHEET

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 LC50 – Daphnia magna (Water flea) – 230 mg/l – 21d
other aquatic invertebrates

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

SAFETY DATA SHEET

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

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

SAFETY DATA SHEET

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.

SAFETY DATA SHEET

Bf6 BLEACHES & FIXER BATH PART B

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: **Cinestill Inc.**

100 Latona Road, Rochester, NY 14652

Product Name: **Bf6 Bleaches & Fixer Bath Part B**

Product Number: **Bf6, 10128**

Product Use: Pre-Bleach & Blix Bath

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 4/9/2020

Version: 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity Category 4 (Inhalation –mist)

Skin corrosion/irritation (Category2)

Serious eye damage/irritation (Category 2A)

Hazardous to the environment (Category 3)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H315 May cause skin irritation
H319 May cause serious eye irritation
H332 Harmful if inhaled
H402 Harmful to aquatic life

Precautionary statement(s)

P261 Avoid breathing mist
P270 Do not eat, drink, or smoke when using this product
P273 Avoid release into the environment
P264 Wash with plenty of soap and water thoroughly after handling.
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

SAFETY DATA SHEET

contact lenses, if present and easy to do. Continue rinsing. Call a doctor if irritation persists.

P304 +P340 IN INHALED: remove person to fresh air and keep comfortable for breathing

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	80-85

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: water spray, dry powder, foam.

5.2 Special Hazards arising from substance or mixture

Fire or excessive heat may cause production of hazardous vapors.

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.

SAFETY DATA SHEET

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 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: 1.25

Vapor Pressure: 18m Hg @ 20°C

Melting Point: Not applicable

Freezing Point: Not established

SAFETY DATA SHEET

Evaporation Rate: Not established
Vapor Density: Not established
Percent Volatile: 59.26
Ph: 7.34
Pounds Per Gallon: 10.43
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 Ammonium EDTA 21265-50-6

Acute toxicity: Assessment of acute toxicity: virtually nontoxic after a single ingestion

Oral: LD50 (rats): is expected to be greater than 5,000 mg/kg based on similar products.

Dermal: ATE Value: > 5,000 mg/kg

Inhalation: ATE Value: > 20.00 mg/l determined for vapor.

ATE Value: > 5.00 mg/l determined for mist.

Skin irritation: Rabbit
irritant

Eye irritation: Rabbit
Irritant

SAFETY DATA SHEET

12. ECOLOGICAL INFORMATION

Component information

Ferric Ammonium EDTA 21265-50-6

12.1 Toxicity

Toxicity to fish LC50-Lepomis macrochirus 475 mg/l – 96h

12.2 Biodegradation

This product is not readily biodegradable. Experience has shown that the product is difficult to eliminate in effluent treatment plants.

12.3 Bioaccumulative potential

No data

12.4 Chemical fate

Biochemical oxygen demand (BOD) Incubation period 5d: 0.01 mg/g

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

SARA 313 Components

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

SARA 311/312 Hazards

None

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
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 Category 4 (Inhalation –mist)
Skin corrosion/irritation (Category2)
Serious eye damage/irritation (Category 2A)
Hazardous to the environment (Category 3)

HMIS RATING

Health: 1
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.

SAFETY DATA SHEET

Bf6 BLEACHES & FIXER BATH PART C

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: **Cinestill Inc.**

100 Latona Road, Rochester, NY 14652

Product Name: **Bf6 Bleaches & Fixer Bath Part C**

Product Number: **Bf6, 10128**

Product Use: Pre-Bleach & Blix Bath

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 4/9/2020

Version: 3.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 4), H302

Serious eye damage (Category 1), H318

Harmful to aquatic life (Category 3), H402

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H302 Harmful if swallowed
H318 Causes severe eye damage
H402 Harmful to aquatic life.

Precautionary statement(s)

P201 Obtain special instructions before use
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

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.

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>
SODIUM METABISULFITE	7681-57-4	N.E.	5 mg/m ³	15-20

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: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

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.

SAFETY DATA SHEET

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

Avoid contact with skin and eyes. 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, pungent 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: 3.46

SAFETY DATA SHEET

Specific Gravity: 1.14 g/ml
Melting Point: Not applicable
Freezing Point: Not established
Evaporation Rate: Not established
Vapor Density: Not established
Percent Volatile: 81.9
Molecular Weight: Not applicable
Pounds Per Gallon: 9.50
V.O.C. is 0.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

None

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong acids and strong oxidizing agents.

10.6 Decomposition Products

May produce oxides of sulfur and carbon

11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

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.

SAFETY DATA SHEET

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

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.

SAFETY DATA SHEET

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 a Dangerous Good

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.

Acute toxicity, Oral (Category 4), H302

Serious eye damage (Category 1), H318

Harmful to aquatic life (Category 3), H402

SAFETY DATA SHEET

HMIS RATING

Health: 2

Chronic: *

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.