

SAFETY DATA SHEET

DF 96 MONOBATH PART A POWDER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Cinestill Inc.

100 Latona Road, Rochester, NY 14652

Product Name: **DF 96 MONOBATH PART A POWDER**

Product Number: **10210P**

Product Use: Developer & Fix 2-Step Solution

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 1/5/2019

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 breath dust or mist

P264 Wash skin thoroughly after handling

P280 Wear protective gloves, eye protection

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	70-75
HYDROQUINONE	123-31-9	2mg/m ³	1 mg/m ³	15-20
SODIUM HYDROXIDE	1310-73-2	2mg/m ³	2mg/m 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 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. 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 1.68
V.O.C. is 0.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: None

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong acids will liberate sulfur dioxide.

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

Sodium Hydroxide 1310-73-2

Acute toxicity:

Oral LD-50 (mouse) 40 mg/kg

Dermal LD-50 No data available

Inhalation: No data available

Skin irritation: Rabbit

Result: Causes severe burns – 24 h

Eye irritation: Rabbit

Result: Corrosive – 24 h

Respiratory or Skin Sensitization: Will not occur

Carcinogenicity/mutagenicity: 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, NTP, OR OSHA

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

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Toxicity to algae EC50 – Pseudokirchneriella subcapitata (green algae)
-0.335 mg/l – 72 h

12.2 Persistence and degradability

Biodegradability Biotic/Aerobic – exposure time 14d
Result: 86% - Readily biodegradable

12.3 Bioaccumulative potential

Bioaccumulation Leuciscus idus (golden orfe) – 3d – 50 µg/l
Bioconcentration factor (BCF):40

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

Sodium Hydroxide 1310-73-2

12.1 Toxicity

Toxicity to fish LC50-Gambusia affinis (Mosquito fish) – 125 mg/l – 96 h
LC50-Oncorhynchus mykiss (rainbow trout) – 45.4 mg/l – 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 – Daphnia magna (Water flea) – 40.38 mg/l – 48h

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Preferred options for disposal are to send to licensed reclaimers. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

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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)
H320	Causes eye irritation (Category 2B)

HMIS RATING

Health: 1
Flammability: 0
Reactivity: 0
Protective: C

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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.

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DF 96 MONOBATH PART B POWDER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributor: Cinestill Inc.

100 Latona Road, Rochester, NY 14652

Product Name: **DF 96 MONOBATH PART B POWDER**

Product Number: **10210P**

Product Use: Developer & Fix 2-Step Solution

Customer Information Phone Number:

1-877-247-3456

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

Date Reviewed: 1/5/2019

Version: 1.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Not a hazardous substance or mixture

2.2 GHS Label elements, including precautionary statements

Pictogram - None

Not a hazardous substance or mixture

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
SODIUM THIOSULFATE	10102-17-7	N.E.	N.E.	100

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with plenty of water as a precaution for 15 minutes. Get medical attention if irritation develops.

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

Ingestion: Immediately rinse mouth with water and give 1 glass of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

Skin Contact: Wash off with soap and plenty of water.

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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: oxides of sulfur

5.3 Advise for firefighters

Wear self-contained breathing NIOSH/MSHA approved apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Sweep up and shovel into an empty container with a lid.

6.2 Environmental precautions

Prevent mixed 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, eyes and clothing. Do not breath dust 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 such as acids or oxidizing agents. All labeled precautions must be observed when handling and storing.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limits.

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

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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 to white granules or crystals, no odor.

Solubility In Water: Complete

Boiling Point: >100° C

Flash Point: Nonflammable

Vapor Pressure: Not applicable

Ph: -8.6 (7.5% solution: anhydrous)

Relative density: 1.667 (anhydrous)
1.685 (pentahydrate)

Specific Gravity: Mixed 1.5

Melting Point: No data available

Freezing Point: No data available

Evaporation Rate: Not applicable

Molecular Weight: 158.11 (anhydrous)
248.18 (pentahydrate)

Pounds Per Mix when not diluted 2.1

V.O.C. is 0.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: None

10.3 Possibility of hazardous reactions

Reacts with acids to form toxic and irritating sulfur dioxide gas.

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong acids will liberate sulfur dioxide.

10.6 Decomposition Products

May produce oxides of sulfur.

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11. TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Component information

Sodium Thiosulfate 10102-17-7

Not a hazardous substance.

Acute toxicity:

No numerical measures of toxicity data available.

Ingestion may cause irritation of the gastrointestinal tract and purging, if a large quantity is ingested. Relatively low in acute toxicity.

Inhalation of product dust or mist may irritate the respiratory tract. Contact with acids releases sulfur dioxide.

Dusts, solutions or mist may cause skin or eye irritation from repeated or prolonged contact.

No delayed or chronic effects known.

Carcinogenicity/mutagenicity: none known.

12. ECOLOGICAL INFORMATION

Component information

Sodium Thiosulfate 10102-17-7

Not a hazardous substance.

12.1 Toxicity

Toxicity to fish	LC 50 – Daphnia magna – 520 mg/l – 48h
	LC 50 - Western mosquitofish – 24,000 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

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Not a RCRA hazardous waste.

Product

Any disposal practice must be in compliance with federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT (US)

Not regulated

IMDG

Not a dangerous good

IATA

Not a dangerous good

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to reporting levels established by SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components that are subject to reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA hazards

California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA

All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

SCAQMD Rule 443.1

Photochemically Reactive: No
Maximum Grams of VOC per Liter: 0
Vapor Pressure: Not applicable

16. OTHER INFORMATION

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

None

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HMIS RATING

Health: 0

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.