

Geoffrey Crawley's FX-6a Monobath

Material Safety Data Sheet



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SECTION 1: Identification

1.1. Identification

Product form : White powders
Substance name : Geoffrey Crawley's FX-6a Monobath
Chemical name : N/A - Mixture
CAS-No : N/A - Mixture
Brand : Flic Film Inc.

1.2. Recommended use and restrictions on use

Use of the substance/mixture : For photographic use only.
Recommended use : Photographic chemicals
Restrictions on use : Not for food, drug or household use

1.3. Supplier

Flic Film Inc.
10B Morrison Road, Longview, Alberta,
Canada T0L 1H0
T +1-403-982-4272

1.4. Emergency telephone number

Emergency number : +1-403-982-4272

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture GHS classification

Based on sodium sulfite and sodium hydroxide content

GHS Classification

Corrosive to metals : Category 1
Skin Corrosion / Irritation : Category 1A
Serious Eye Damage / Eye irritation : Category 1
Specific target organ toxicity : Category 1
Carcinogenicity : Not identified

2.2. GHS Label elements, including precautionary statements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS) :

May be corrosive to metals
Causes severe skin burns and eye damage
May cause respiratory irritation

Precautionary statements (GHS)

Prevention : Do not breathe dust/fume/gas/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Keep only in original container

Response : Immediately call a POISON CENTER or doctor/physician

Inhalation : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before use.

Eyes : IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present an easy to do. Continue rinsing.

Ingestion : IF SWALLOWED: Rinse mouth. Do not induce vomiting.

Spills : Absorb spillage to prevent material damage.

Storage. : Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Store in corrosive resistant polypropylene container with a resistant liner.
Store in a dry place.

Disposal. : Dispose of contents/container to an approved waste disposal plant.
Hazards not otherwise classified (HNOC)
None identified.

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2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Substance type : Multi-constituent

Name	Product identifier	% %
Sodium sulfite	(CAS-No.) 7757-83-7	25-30%
Phenidone	(CAS-No.) 2654-57-1	<1%
Hydroquinone	(CAS-No.) 123-31-9	5-10%
Sodium thiosulfate pentahydrate	(CAS-No.) 7772-98-7	50-60%
Sodium hydroxide	(CAS No.) 1310-73-2	5-10%

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. (show the label where possible). Show this safety data sheet to the doctor in attendance.
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest. If breathing is difficult, give oxygen. Get medical attention.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
- Symptoms/effects after skin contact : May cause skin irritation or burns.
- Symptoms/effects after eye contact : May causes severe eye irritation and redness to the eye lids, conjunctiva. There is potential for permanent and severe eye damage if not treated immediately.
- Symptoms/effects after ingestion : Swallowing a small quantity may cause severe gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of large quantities may cause ulceration, vomiting, shock and death.
- Notes physician : Treat symptomatically.

4.3. Immediate medical attention and special treatment, if necessary

Obtain medical assistance.

SECTION 5: Fire-fighting measures

Negligible fire hazard due to non-combustible properties of the mixture.

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Oxides of sodium. Sulfur dioxide. Oxides of nitrogen. Carbon dioxide. Carbon monoxide. Hydrogen when in contact with zinc, aluminum, etc.

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5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid breathing dust. Avoid dust formation. Wash thoroughly after handling. Wear correct personal protective equipment.

6.1.1. For non-emergency personnel

- Protective equipment : Safety glasses. Protective clothing. Gloves. Dust mask.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.

- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Spills : Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering the area. Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of dust build up. Avoid breathing dust. Avoid contact with skin and eyes. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container closed when not in use. Store in a cool, dry, well-ventilated area.
- Incompatible products : Strong acids.
- Incompatible materials : Store protected from moisture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component	Occupational Exposure Limits
Sodium sulfite	ACGIH TWA 5 mg/m ³ (8 hour).
Phenidone	Not known.
Hydroquinone	ACGIH TWA 1 mg/m ³ (8 hour).
Sodium thiosulfate	Not listed.
Sodium hydroxide	ACGIH TWA 2 mg/m ³ (8 hour).

8.2. Appropriate engineering controls

- Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Material should be handled using local exhaust ventilation (LEV) or laboratory hood whenever possible.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Chemical resistant apron. Gloves. Protective clothing. Safety glasses. Dust mask.



Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear respiratory protection.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid.
Appearance	: Powder / crystalline
Colour	: White/off-white/Cream.
Odour	: Slight sulfurous / acidic smell.
Odour threshold	: No data available.
pH	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available.
Relative vapour density at 20 °	: No data available.
C Relative density	: No data available.
Specific gravity / density	: No data available.
Molecular mass	: N/A - Mixture.
Solubility	: Soluble in cold water, hot water.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosion limits	: No data available.
Explosive properties	: No data available.
Oxidizing properties	: No data available.
Hygroscopic	: Yes

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The mixture is stable.

10.2. Chemical stability

Hygroscopic. Stable under normal conditions.

10.3. Possibility of hazardous reactions

Moisture can also hydrolyze mixture to liberate sulfur dioxide which is a highly irritating and corrosive gas. Adding strong acid to the material can generate sulfur dioxide which is highly irritating and corrosive gas and produce heating (exotherm) of the mixture.

10.4. Conditions to avoid

Direct sunlight. Possible emission of gaseous decomposition products may lead to a dangerous pressure build. Exposure to moisture. Elevated temperatures. Store protected from moisture.

10.5. Incompatible materials

Strong acids. Avoid strong acids to prevent generation of highly irritant and corrosive sulfur dioxide gas and heating (exotherm).

10.6. Hazardous decomposition products

Oxides of sodium. Oxides of nitrogen. Sulfur dioxide. Carbon dioxide. Carbon monoxide. Hydrogen when in contact with zinc, aluminum, etc.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact.

Acute toxicity : Oral: Harmful if swallowed.

Toxicological data	
Sodium thiosulfate	
LD50 Oral	2,000 mg/kg (rat)
LC50 Inhalation	>2.6 mg/l / 4h (rat)
LD50 Dermal	2,000 mg/kg (rat)
Phenidone	
LD50 Oral	> 200 mg/kg (rat)
LD50 Inhalation	Not know.
LD50 Dermal	Not known.
Sodium sulfite	
LD50 Oral	2610 mg/kg (rat)
LD50 Inhalation	>22 mg/L (rat) 1 h >5.5 mg/L (rat) 4 h
LD50 Dermal	>2000 mg/kg
Hydroquinone	
LD50 Oral	298 mg/kg (rat)
LD50 Inhalation	Not listed
LD50 Dermal	74,800 mg/kg (rabbit)
Sodium hydroxide	
LD50 Oral	140-340 mg/kg (rat)
LD50 Inhalation	Not listed
LD50 Dermal	1350 mg/kg (rabbit)

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Skin corrosion/irritation	: Causes skin irritation or burns.
Serious eye damage/irritation	: Causes serious eye irritation or burns.
Respiratory or skin sensitization	: May cause an allergic skin reaction. Sodium sulfite may cause severe or deadly allergic reactions in some asthmatics and sulfite sensitive individuals. Possible signs and symptoms of allergic reactions include bronchoconstriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure and anaphylaxis. Repeated or prolonged contact may cause dermatitis.
Germ cell mutagenicity	: Not classified as a mutagen.
Carcinogenicity	: Not classified as a carcinogen.
Reproductive toxicity	: Not classified.
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: The substance or mixture is not classified as specific target organ toxicant. Prolonged or chronic ingestion may cause bromism characterized by disturbances to the central nervous system.
Symptoms/effects after skin contact	: May cause skin irritation and/or dermatitis.
Symptoms/effects after eye contact	: May cause irreversible eye damage.
Symptoms/effects after ingestion	: Central nervous system depression. Diarrhea. Nausea. Vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life.

12.2. Persistence and degradability

Hypo Clearing Agent

Persistence and degradability	The material is inorganic and not subject to biodegradation and not to persist in the environment.
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12.3. Bioaccumulative potential

Hypo Clearing Agent

Bioaccumulative potential	This material is believed not to bioaccumulate.
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local / national regulations. Dispose of contents / container to comply with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

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SECTION 14: Transport information

Department of Transportation (DOT) : Not applicable.

In accordance with DOT Transport document description

DOT Special Provisions (49 CFR 172.102) : No special provisions.

DOT Packaging Exceptions (49 CFR 173.xxx) : Not applicable

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Other information : No supplementary information available.

SECTION 15: Regulatory information

Canadian National Regulations

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Not listed on the Canadian DSL (Domestic Substances List)

Not listed on the Canadian IDL (Ingredient Disclosure List)

SECTION 16: Other information

Full text of H-phrases: May be corrosive to metals
Causes severe skin burns and eye damage
May cause respiratory irritation