

HICON 540 FIXER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.

7200 Huron River Drive, Dexter, MI 48130

Product Name: **HICON FIXER**

Product Number: **146010, 146290**

Product Use: Photographic fixer.

Customer Information Phone Number:

1-734-424-9625

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

Date Reviewed: 7/20/2015

Version: 2.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Causes eye irritation (Category 2B), H320

Causes skin irritation (Category 2), H314

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: WARNING

Hazard statement(s)

H305 May be harmful if swallowed and enters airways/

H314 Causes skin irritation

H317 May cause allergic skin reaction

H320 Causes eye irritation

H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing mist

P264 Wash skin thoroughly after handling

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

P280 Wear protective gloves, eye protection

P301 + P312 IF SWALLOWED; call a POISON CENTER or doctor/physician if you feel unwell

P302 + P352 IF ON SKIN: Wash with plenty of soap

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

Chemical Name	CAS	OHSA PEL	ACGIH TLV	Weight %
AMMONIUM THIOSULFATE	7783-18-8	N.E.	N.E.	65-75
SODIUM SULFITE	7757-83-7	N.E.	5 mg/m ³	5-10
ACETIC ACID	64-19-7	25mg/m ³	5 mg/m ³	1-5
SODIUM THIOSULFATE	10102-17-7	N.E.	N.E.	1-3

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes 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 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, slightly yellow, vinegar odor.
Solubility In Water: Complete
Boiling Point: >100° C
Flash Point: Nonflammable
Vapor Pressure: 18mm Hg @ 20° C
Ph: 5.28
Specific Gravity: 1.37 g/ml
Melting Point: Not applicable
Freezing Point: Not established
Evaporation Rate: Not established
Percent Volatile: 39.81
Molecular Weight: Not applicable
Pounds Per Gallon: 11.41
V.O.C. is 78.70 g/L or 5.7 % or 0.66 lb. /gal.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

Conditions To Avoid: None

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

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
 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

Acetic Acid 64-19-7

Acute toxicity:

Oral: LD50 (rats): 3,310 mg/kg

Dermal: LD50 (Rabbit) – 4h – 11.4 mg/l

Inhalation: LC50 (Mouse) – 1h – 5620 ppm
 LC50 (Rat) – 4h -11.4 mg/l

Skin irritation: No data available

Eye irritation: Rabbit
 Corrosive to eyes

Respiratory or skin sensitization No data available

Carcinogenicity/mutagenicity: none

Reproductive toxicity: No data available

Specific target organ toxicity – repeated exposure – No data available

Aspiration hazard - No data available

Sodium Thiosulfate 10102-17-7

Not a hazardous substance. No toxicological data available.

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

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

Acetic Acid 64-19-7

12.1 Toxicity

Toxicity to fish LC0- Oncorhynchus mykiss (rainbow trout) - > 1,000 mg/l – 96h
(OECD Test Guideline 203).

Toxicity to daphnia and LC50 – Daphnia magna (Water flea) – > 300.82mg/l – 48h
other aquatic invertebrates (OECD Test Guideline 202).

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Biodegradability aerobic – exposure time 30d
Result: 99% - Readily biodegradable

Biochemical Oxygen 880 mg/g Demand (BOD)

12.4 Mobility in soil

No data available

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

12.5 Result of PBT and vPvB assessment

Assessment not available as chemical assessment not required/not conducted

12.5 Other adverse effects

No data available.

Sodium Thiosulfate 10102-17-7

Not a hazardous substance. No ecological data available.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

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

14. TRANSPORT INFORMATION**DOT (US)**

Not regulated

15. REGULATORY INFORMATION**SARA 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302:
None

SARA 313 Components

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

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

California Prop 65 Components

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

TSCA

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

SCAQMD Rule 443.1

Photochemically Reactive: No
Maximum Grams of VOC per Liter: 78.7 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.**

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.