

ACTIVATOR TYPE M

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.

7200 Huron River Drive, Dexter, MI 48130

Product Name: **ACTIVATOR TYPE M**

Product Number: **804-2004-61, 804-2003-61**

Product Use: Photographic activator

Customer Information Phone Number:

1-734-424-9625

CHEMTREC®: 24 Hour Emergency Transport Phone Number:

1-800-424-9300

Date Reviewed: 12/21/2015

Version: 2.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 3), H301

Serious eye damage (Category 1), H318

Skin irritation (Category 2), H315

Skin sensitization (Category 1), H317

Reproductive toxicity (Category 1) H360

Acute aquatic toxicity (Category 3), H402

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word: **DANGER**

Hazard statement(s)

H301	Harmful if swallowed
H317	May cause skin irritation or allergic reaction
H318	Causes severe eye damage
H360	May damage fertility or the unborn child.
H410	Very toxic to aquatic life

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.
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 %
SODIUM SULFITE	7757-83-7	N.E.	N.E.	5-10
POTASSIUM HYDROXIDE	1310-58-3	N.E.	2mg/m ³	5-10
AMINOETHYLETHANOLAMINE	111-14-11	N.E.	N.E.	1-3

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: Substance is corrosive. 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. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals.

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.

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

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. However, if use conditions generate vapors or fumes, use a NIOSH approved acid gas respirator.

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, colorless, odorless, and liquid.

Solubility In Water: Complete

Boiling Point: >100 ° C

Vapor Pressure: N.E.

Specific Gravity: 1.10

Melting Point: Not applicable

Freezing Point: N.E.

Evaporation Rate: <1

Vapor Density: N.E.

Percent Volatile: 86.17

Ph: 13.68

Molecular Weight: Not applicable

Pounds Per Gallon: 9.21

V.O.C. = 0

10. STABILITY AND REACTIVITY**10.1 Reactivity**

Stable

10.2 Chemical stability

None

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible Materials

Strong acids, alkalis, and oxidizers. Common metals other than stainless steel.

10.6 Decomposition Products

May produce oxides of sulfur and carbon.

11. TOXICOLOGICAL INFORMATION**11.1 Information of toxicological effects****Component information*****Aminoethylethanolamine 111-41-1*****Acute toxicity:**

Oral: LD50 (rats): 3,000 mg/kg

Dermal: LD50 (rats): 2,250 mg/kg

Inhalation: No data available

Skin irritation: Rabbit

Result: Corrosive

Eye irritation: Eyes – Rabbit

Result: Risk of serious damage to eyes.

Respiratory or skin sensitization: No data available

Carcinogenicity/mutagenicity: IARC: 2B – Group 2B: Possibly carcinogenic to humans

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 known or anticipated carcinogen by NTP.

Reproductive toxicity: No data available.

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

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

Aminoethylethanolamine 111-41-1

12.1 Toxicity

Toxicity to fish	LC50-Pimephales promelas – 640 mg/l – 96 hh
Toxicity to daphnia and other aquatic invertebrates	LC50 – Daphnia magna (Water flea) – 22 mg/l – 48 h EC50 – Daphnia magna (Water flea) -133 mg/l – 48 h

12.2 Persistence and degradability

Activated sludge. OECD Guideline 301 F
 BOD of the ThOD
 Degree of elimination: >60% (28 d)
 Evaluation: Readily biodegradable

12.3 Bioaccumulative potential

Accumulation of organisms is not to be expected.

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

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatments plants. Do not release untreated into natural waters.

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

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.

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

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)**

DOT Class: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Contains Potassium Hydroxide)

Hazard Class: 8

UN No.: 3266

Packing Group: II

Guide No: 154

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

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
Serious eye damage (Category 1), H318
Skin irritation (Category 2), H315
Skin sensitization (Category 1), H317
Reproductive toxicity (Category 1) H360
Acute aquatic toxicity (Category 3), H402

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.