

NETWORK NEW CENTURY PLUS READY-TO-USE ACTIVATOR

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.

7200 Huron River Drive, Dexter, MI 48130

Product Name: **NEW CENTURY PLUS RTU ACTIVATOR**

Product Number: **621010, 621110**

Product Use: Photographic activator

Customer Information Phone Number:

1-734-424-9525

CHEMTREC®: 24 Hour Emergency Transport Phone Number:

1-800-424-9300

Date Reviewed: 01/9/2017

Version: 2.0

2. HAZARDOUS IDENTIFICATION

2.1 Classification of the substance or mixture

Health hazard

Acute toxicity, Oral (Category 3), H301

Skin corrosion (Category 1B), H314

Skin sensitizer (Category 1) H317

Causes severe eye damage (Category 1) H318

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

Precautionary statement(s)

P201 Obtain special instructions before use

P260 Avoid breathing mist, vapors, spray.

P264 Wash skin thoroughly after handling

P280 Wear protective gloves, eye protection, protective clothing, face protection.

SAFETY DATA SHEET



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

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
Potassium Sulfite	10117-38-1	N.E.	N.E.	5-10
Potassium Hydroxide	1310-58-3	2mg/m ³ REL	2mg/m ³ Ceiling	5-10
Diethylenetriamine	111-40-0	4mg/m ³ REL	1 ppm TWA	1-5

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, rinse mouth. 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.

4.2 Most important symptoms and effects:

Symptoms: In normal conditions of use, no adverse effects are expected.

4.3 Indication of immediate medical attention and special treatment needed:

General advice: Call a physician immediately.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Nonflammable. Use agent appropriate for surrounding fire.

5.2 Special Hazards arising from substance or mixture

Do not use a solid water stream as it may scatter and spread fire. 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. Protect from direct sunlight. 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 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 vapors or fumes, use a NIOSH approved acid gas respirator instituted in accordance with OSHA standard 20 CFR1910.134.

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 liquid with slight alcohol odor.

Solubility In Water: Complete

Boiling Point: >100 °C

Vapor Pressure: 23.00 hPa

Specific Gravity: 1.08

Melting Point: < 0 °C

Freezing Point: Not established

Evaporation Rate: Not established

Vapor Density: Not established

Percent Volatile: 87.8

Ph: >13

Molecular Weight: Not applicable

Pounds Per Gallon: 9.0

V.O.C. is 0.

Flashpoint: 93°C Not combustible

Auto ignition temperature: Not applicable

Lower explosion limit: Not applicable

Upper explosion limit: Not applicable

Flammability: Not flammable

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable

10.2 Chemical stability

The product is stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Reacts with acids.

10.4 Conditions to avoid

Avoid contact with strong acids.

10.5 Incompatible Materials

Strong acids. 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

Diethylenetriamine 111-40-0

Acute toxicity:

Oral: LD50 (rats): 1080 mg/kg

Dermal: LD50 (rats): 1090 mg/kg

Inhalation: LC50 (rats): 0.3 mg/l 4 h

Skin irritation: Rabbit

Result: Open irritation test

Eye irritation: No data available. Risk of serious damage to eyes.

Respiratory or skin sensitization: No data available.

Specific target organ toxicity – single exposure

May cause respiratory irritation.

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.

Additional information: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, shortness of breath, Headache, Nausea, Stomach irregularities – Based on human experience.

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 Sulfite 10117-38-1

Acute toxicity:

No data available

Dermal:

No data available

Inhalation:

No data available

Skin irritation:

Skin – rabbit (OECD Test Guidance 429)

No skin irritation – 4h

Eye irritation:

No data available

Respiratory or Skin Sensitization

No data available

Carcinogenicity/mutagenicity: none

12. ECOLOGICAL INFORMATION

Component information

Diethylenetriamine 111-40-0

12.1 Toxicity

Toxicity to fish

LC50-Poecilia reticulata (guppy) –1,014 mg/l – 96 h

Toxicity to daphnia and

EC50 – Daphnia magna (Water flea) -64.6 mg/l – 48 h

Toxicity to algae

EC50 – selenastrum capricornutum – 1,164 mg/l – 72 h

12.2 Persistence and degradability

Activated sludge. OECD Guideline 301

Degree of elimination: > 87% (28 d)

Evaluation: Readily biodegradable

12.3 Bioaccumulative potential

Accumulation of organisms is unlikely.

< 6.3 Caprinus carpio (carp) Method: OESO 305 C

12.4 Mobility in soil

Completely miscible

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.

Potassium Sulfite 45% 10117-38-1

12.1 Toxicity

Toxicity to fish	Static test-Leuciscus idus (golden orfe) – 215-464 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

SAFETY DATA SHEET



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.

U.S. RCRA Hazardous Waste Classification (40 CFR 261)

When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous waste (EPA Hazardous waste Number D002).

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

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

SAFETY DATA SHEET



Vapor Pressure: 18 mm Hg@ 20 Degrees C

16. OTHER INFORMATION

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

May be corrosive to metals, H290
Harmful if swallowed, H302
Toxic in contact with skin H311
Causes severe skin burns and eye damage H314
May cause allergic skin reaction H317
Serious eye damage (Category 1), H318
Skin sensitization (Category 1), H317
Fatal if inhaled, H318
May cause respiratory irritation H335

HMIS RATING

Health: 3
Flammability: 1
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.