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## 1. Identification of the substance/mixture and of the company/undertaking

Product name: KODAK EKTACOLOR RA Bleach Fix and Replenisher NR, Part B

Product code: 4036646 - Part B

Supplier: EASTMAN KODAK COMPANY, 343 State Street, Rochester, New York 14650

For Emergency Health, Safety & Environmental Information, call (585) 722-5151 (USA)

For further information about this product, call (800) 242-2424.

Synonyms: None.

Product Use: photographic processing chemical (bleach/bleach fixer), For industrial use only.

#### 2. Hazards identification

**CONTAINS:** Ammonium ferric ethylenediaminetetraacetic acid (21265-50-9)

**WARNING!** 

**CAUSES SKIN AND EYE IRRITATION** 

HMIS III Hazard Ratings: Health - 2, Flammability - 1, Physical Hazard - 0

NFPA Hazard Ratings: Health - 3, Flammability - 1, Instability - 0

NOTE: HMIS III and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

## 3. Composition/information on ingredients

Weight Components - (CAS-No.)

percent
50 - 55 Ammonium ferric ethylenediaminetetraacetic acid (21265-50-9)

#### 4. First aid measures

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

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**Ingestion:** Get medical attention if symptoms occur.

#### 5. Fire-fighting measures

Extinguishing Media: Water spray, Carbon dioxide (CO2), Dry chemical, Foam.

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides (NOx), (see also Hazardous Decomposition Products sections.)

Unusual Fire and Explosion Hazards: None.

#### 6. Accidental release measures

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

#### 7. Handling and storage

**Personal precautions:** Avoid breathing mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Prevention of Fire and Explosion:** Keep from contact with oxidizing materials.

**Storage:** Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

#### 8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name Regulatory Value Type Value

List

Ammonium ferric ACGIH time weighted average 1 mg/m3

ethylenediaminetetra

acetic acid

Expressed as Fe

**Ventilation:** Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

**Respiratory protection:** None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

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**Eye protection:** Wear safety glasses with side shields (or goggles).

Hand protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

### 9. Physical and chemical properties

Physical form: liquid

Colour: no data available

Odour: no data available

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Boiling point/boiling range: no data available

Water solubility: no data available

**pH:** no data available

Flash point: no data available

### 10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents.

Hazardous decomposition products: nitrogen oxides (NOx), oxides of iron

Hazardous Polymerization: Hazardous polymerisation does not occur.

## 11. Toxicological information

## **Effects of Exposure**

#### General advice:

Contains: Ammonium ferric ethylenediaminetetraacetic acid. This compound can chelate metals and may alter calcium and other cation balances.

**Inhalation:** Expected to be a low hazard for recommended handling.

Eyes: Causes eye irritation.

Skin: Causes skin irritation.

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**Ingestion:** Expected to be a low ingestion hazard.



## 12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

## **Potential Toxicity:**

Toxicity to fish (LC50): > 100 mg/l

Toxicity to daphnia (EC50): Daphnia: > 100 mg/l

Persistence and degradability: Not readily biodegradable.

## 13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

Not regulated for all modes of transportation.

For more transportation information, go to: www.kodak.com/go/ship.

## 15. Regulatory information

#### **Notification status**

Regulatory List	Notification status
TSCA	All listed
DSL	Not all listed
NDSL	Listed
EINECS	All listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	Not all listed
ECI	Not all listed
NZIoC	All listed
PICCS	All listed

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Section 5209 Carcinogens List.

"Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

#### Oth

ther regulations	
American Conference of Governmental Industrial Hygienists (ACGIH):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
International Agency for Research on Cancer (IARC):	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.
U.S. National Toxicology Program (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.
U.S. Occupational Safety and Health Administration (OSHA):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
U.S CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):	No components of this product are subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.
U.S CERCLA/SARA - Section 302 (40 CFR § 355 Appendices A and B - The List of Extremely Hazardous Substances and Their Threshold Planning Quantities):	No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.
U.S CERCLA/SARA - Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting):	Ammonium ferric ethylenediaminetetraacetic acid
U.S California - 8 CCR Section 339 - Director's List of Hazardous Substances:	Ammonium ferric ethylenediaminetetraacetic acid
U.S California - 8 CCR Section 5200-5220 - Specifically Regulated Carcinogens:	No components found on the California Specifically Regulated Carcinogens List.
U.S California - 8 CCR Section 5203 Carcinogens:	No components found on the California Section 5203 Carcinogens List.
U.S California - 8 CCR Section 5209 Carcinogens:	No components found on the California

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- U.S. Massachusetts General Law Chapter 111F (MGL c 111F) Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):
- U.S. Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances):
- U.S. New Jersey Worker and Community Right to Know Act (N.J.S.A. 34:5A-1):
- U.S. Pennsylvania Part XIII. Worker and Community Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A):
- U.S. Rhode Island Title 28 Labor and Labor Relations (Chapters 28-21 Hazardous Substance Right-to-Know Act):

- No components regulated under the Massachusetts Hazardous Substances Disclosure by Employers Law.
- Ammonium ferric ethylenediaminetetraacetic acid
- No components regulated under the New Jersey Worker and Community Right-to-Know Act.
- Water, Ammonium ferric ethylenediaminetetraacetic acid, Glycine, N,N'-1,2-ethanediylbis{ N-(carboxymethyl-, triammonium salt
- Ammonium ferric ethylenediaminetetraacetic acid

#### 16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

#### **US/Canadian Label Statements:**

KODAK EKTACOLOR RA Bleach Fix and Replenisher NR, Part B CONTAINS: Ammonium ferric ethylenediaminetetraacetic acid (21265-50-9). WARNING! CAUSES SKIN AND EYE IRRITATION.

Avoid breathing mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. FIRST AID: If inhaled, remove to fresh air. Get medical attention if symptoms occur. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. Get medical attention if symptoms occur. Keep out of reach of children. Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood. Since emptied containers retain product residue, follow label warnings even after container is emptied. IN CASE OF FIRE: Water spray, Carbon dioxide (CO2), Dry chemical, Foam. IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Additional Components Include: Water (7732-18-5), Glycine, N,N'-1,2-ethanediylbis{ N-(carboxymethyl-, triammonium salt (15934-01-7).

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

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