

# Material Safety Data Sheet

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

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

**Product code:** 8471484 - Part B

**Supplier:** KODAK AUSTRALASIA Pty. Ltd., Level 2, 436 Johnston Street, Abbotsford, Victoria, 3067

For Chemical Emergency Information, in Australia call 1800 033111 (24 hour service Australia-wide); in New Zealand call 0800 734 607 (24 hour service); in Asia call +86 21 63500836

For Other Information, call 61 3 8417 8000.

**Synonyms:** PCD 5777

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

## 2. Hazards identification

**STATEMENT OF HAZARDOUS NATURE:** Not classified as hazardous according to criteria of Australian Safety and Compensation Council

Contains no scheduled poisons

## 3. Composition/information on ingredients

Weight percent	Components (CAS-No.)
70 - 75	Water (7732-18-5)
20 - 25	Ammonium ferric ethylenediaminetetraacetic acid (21265-50-9)
1 - 5	Acetic acid (64-19-7)

## 4. First aid measures

**Inhalation:** If symptomatic, move to fresh air. Get medical attention if symptoms persist.

**Eyes:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lens, if worn. Get medical attention if symptoms occur.

**Skin:** Wash off with soap and water. Get medical attention if symptoms occur.

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

## 5. Fire-fighting measures

**Hazchem Code:** 2X

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

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**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. Contaminated absorbent should be disposed of in accordance with local regulations. 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 List	Value Type	Value
Ammonium ferric ethylenediaminetetra acetic acid	Exposure Standards	time weighted average	1 mg/m <sup>3</sup>
Acetic acid		time weighted average	<i>Expressed as Fe</i> 10 ppm 25 mg/m <sup>3</sup>
		Short term exposure limit	15 ppm 37 mg/m <sup>3</sup>
Ammonium ferric ethylenediaminetetra acetic acid	New Zealand	time weighted average	1 mg/m <sup>3</sup>
Acetic acid		time weighted average	<i>Expressed as Fe</i> 10 ppm 25 mg/m <sup>3</sup>
		Short term exposure limit	15 ppm 37 mg/m <sup>3</sup>

**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. Respirator type: full-face organic vapour cartridge. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

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

**Hand protection:** For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

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## 9. Physical and chemical properties

**Physical form:** liquid

**Colour:** reddish-brown

**Odour:** slight ammonia

**Specific gravity:** 1.10

**Vapour pressure (at 20.0 °C (68.0 °F)) :** 24 mbar (18.0 mm Hg)

**Vapour density:** 0.6

**Boiling point/boiling range:** > 100 °C (> 212.0 °F)

**Water solubility:** complete

**pH:** 5.6

**Flash point:** does not flash

**Flammability Limits:** Not specified

## 10. Stability and reactivity

**Stability:** Stable under normal conditions.

**Incompatibility:** Strong bases, sodium hypochlorite (bleach), Oxidizing agents, Metals Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas). Contact with strong bases may liberate ammonia.

**Hazardous decomposition products:** Ammonia, chloramine, nitrogen oxides (NO<sub>x</sub>).

**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.

Contains: Acetic acid. Acute overexposure to extremely high airborne concentrations of respiratory irritants has been associated with development of an asthma-like reactive airways syndrome (RADS) in susceptible individuals. Extremely high airborne concentrations are not generated during normal conditions of use but may occur following a spill. The potential to generate extremely high airborne concentrations in a spill situation depends upon physical factors such as the concentration of the solution, the volume of the spill, the surface area of the spill, the size of the room where the spill occurred, and the ventilation rate in the room.

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

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**Eyes:** No specific hazard known. May cause transient irritation.

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

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

## Data for Acetic acid (CAS 64-19-7):

### Acute Toxicity Data:

Oral LD50 (rat): 3,310 - 3,530 mg/kg

- Inhalation LC50 (rat): 11.4 mg/l 4641 ppm / 4 hr
- Dermal LD50: 1,060 mg/kg
- Skin irritation: severe
- Eye irritation (washed eyes): severe
- Eye irritation (unwashed eyes): severe

## 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): > 100 mg/l

**Persistence and degradability:** 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

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

**ADG:** UN number: UN3265  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(Acetic acid)  
Class: 8  
Packaging group: III

**IATA:** UN number: UN3265  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(Acetic acid)  
Class: 8  
Packaging group: III

**IMDG:** UN number: UN3265

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Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(Acetic acid)  
Class: 8  
Packaging group: III

For more transportation information, go to: [www.kodak.com/go/ship](http://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

"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.

**Poisons Schedule:** Not specified

**Australian Safety and Compensation Council:** none

### Other regulations

Australia National Model Regulations for the Control of Scheduled Carcinogenic Substances      No components listed

## 16. Other information

### Australian Safety and Compensation Council Labeling:

Not classified as hazardous according to criteria of Australian Safety and Compensation Council

### National Health and Medical Research Council Standard for the Uniform Scheduling of Drugs and Poisons Labeling:

**CONTAINS NO SCHEDULED POISONS**

**First aid:** No first aid instructions are recommended for labelling purposes.

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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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R-1, S-1, F-1, C-0