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

Product name: KODAK FLEXICOLOR Bleach III Replenisher NR, Bleach

Product code: 6600977 - Bleach

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 6300

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

2. Hazards identification

STATEMENT OF HAZARDOUS NATURE: Hazardous according to criteria of Australian Safety and Compensation Council

Irritant. Risk of serious damage to eyes.

Contains no scheduled poisons

3. Composition/information on ingredients

Weight percent	Components (CAS-No.)	
5 - 10	Acetic acid (64-19-7)	
1 - 5	Ferric ammonium propylenediaminetetraacetic acid (111687-36-6)	
1 - 5	Ammonium bromide (12124-97-9)	
1 - 5	Ammonium nitrate (6484-52-2)	
1 - 5	Ammonium acetate (631-61-8)	

4. First aid measures

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

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. 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.

Ingestion: Get medical attention if symptoms occur.

Notes to physician:

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Symptoms: If signs and symptoms of cyanosis are present, treat for methemoglobinemia.

5. Fire-fighting measures

Hazchem Code: 1Y

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.

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: Do not breathe mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. 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	
Acetic acid	Exposure Standards	time weighted average	10 ppm 25 mg/m3	
		Short term exposure limit	15 ppm 37 mg/m3	
Ferric ammonium propylenediaminetet raacetic acid		time weighted average	1 mg/m3	
			Expressed as Fe	
Acetic acid	New Zealand	time weighted average	10 ppm 25 mg/m3	
		Short term exposure limit	15 ppm 37 mg/m3	
Ferric ammonium propylenediaminetet raacetic acid		time weighted average	1 mg/m3	
			Expressed as Fe	

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

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

9. Physical and chemical properties

Physical form: liquid

Colour: green

Odour: acetic acid

Specific gravity: 1.05

Vapour pressure: 24 mbar (18.0 mm Hg)

Vapour density: 0.6

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

Water solubility: complete

pH: 4.3

Flash point: does not flash

Flammability Limits: Not specified

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong bases, sodium hypochlorite (bleach), Strong oxidizing agents, Metals Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas).

Hazardous decomposition products: nitrogen oxides (NOx), Ammonia, chloramine.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

General advice:

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

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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.

Contains: Ferric ammonium propylenediaminetetraacetic acid. This compound can chelate metals and may alter calcium and other cation balances.

Contains: Ammonium bromide. Ingestion of bromide salts can cause nausea, vomiting, headache, irritability, delirium, memory loss, decreased appetite, joint pain, hallucinations, stupor, coma, and acne like rash on face, legs, and trunk.

Contains: Ammonium nitrate. Under some circumstances methemoglobinemia may occur when nitrates are converted by bacteria in the stomach to nitrites.

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

Eyes: Risk of serious damage to eyes.

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

Ingestion: Expected to be a low hazard for recommended handling.

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/kgSkin irritation: severe

Eye irritation (washed eyes): severeEye irritation (unwashed eyes): severe

Data for Ferric ammonium propylenediaminetetraacetic acid (CAS 111687-36-6):

Acute Toxicity Data:

Oral LD50 (male rat): 2,828 mg/kg

Oral LD50 (female rat): 4,000 mg/kg

Skin irritation: slightSkin Sensitization: none

Eye irritation (unwashed eyes): slightEye irritation (washed eyes): none

Mutagenicity/Genotoxicity Data:

Salmonella-E. coli/Mammalian-Microsome Reverse Mutation Assay (TA1535, TA1537, TA1538, TA98, TA100): negative (in presence and absence of activation)

- CHO/HGPRT assay: positive (in presence of activation)
- CHO/HGPRT assay: negative (in absence of activation)
- Mouse lymphoma assay: negative (in presence and absence of activation)

Data for Ammonium bromide (CAS 12124-97-9):

Acute Toxicity Data:

Oral LD50 (rat): 2,700 mg/kg

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Dermal LD50 (rat): > 2,000 mg/kg

Skin irritation: irritatingSkin Sensitization: noneEye irritation: Irritating to eyes.

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

Toxicity to algae (IC50): 10 - 100 mg/l

Toxicity to other organisms (EC50): sludge: > 100 mg/l

Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): ca. 101 g/l

Biochemical Oxygen Demand (BOD): ca. 55 g/l

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: UN1760

Proper shipping name: CORROSIVE LIQUID, N.O.S. (Ammonium bromide)

Class: 8
Packaging group: III

IATA: UN number: UN1760

Proper shipping name: CORROSIVE LIQUID, N.O.S. (Ammonium bromide)

Class: 8 Packaging group: III

IMDG: UN number: UN1760

Proper shipping name: CORROSIVE LIQUID, N.O.S. (Ammonium bromide)

Class: 8 Packaging group: III

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

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15. Regulatory information

Notification status

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

Poisons Schedule: Not specified

Australian Safety and Compensation Council: none

Other regulations

PICCS

Australia National Model Regulations for the Control of

All listed

Scheduled Carcinogenic Substances

No components listed

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. The actual label information will depend upon the intended use of the product. Australian Safety and Compensation Council labeling appears for commercial/industrial use.

Australian Safety and Compensation Council Labeling:

Contains: Acetic acid 5 - 10%

pH: 3 - 6

[&]quot;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.

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Symbol/Indication of Danger: Xi: Irritant

Risk Phrases: R41: Risk of serious damage to eyes.

Safety Phrases: S26: In case of contact with eyes, rinse immediately

with plenty of water and seek medical advice.

S39: Wear eye/face protection.

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.

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.

R-2, S-2, F-1, C-0