

## SAFETY DATA SHEET

Issuing Date: 25-Nov-2015

Version 3

## CP RA P2-RB Bleach Fix &amp; Replenisher

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CP RA P2-RB Bleach Fix & Replenisher**Product code** 600005297P2B**Product Use** Photographic processing.**Manufactured by**FUJIFILM Hunt Chemicals U.S.A., Inc.  
40 Boroline Road  
Allendale, NJ 07401-0320**Distributed in the USA by**FUJIFILM North America Corporation  
200 Summit Lake Drive  
Valhalla, NY 10595-1356**Distributed in Canada by**FUJIFILM Canada, Inc.  
600 Suffolk Ct.  
Mississauga, Ontario L5R 4G4**Distributed Internationally by**FUJIFILM Hunt Chemicals U.S.A., Inc.  
40 Boroline Road  
Allendale, NJ 07401-0320**SDSs are available at the following website(s):** <http://www.fujifilmusa.com/msds>**Company Phone Number** U.S.A: 800-473-3854 Canada: 800-263-5018**Emergency Telephone** Transport-CHEMTREC Inside NA: 800-424-9300  
Transport CHEMTREC Outside NA: 703-527-3887  
Transport-CANUTEC Inside Canada: 613-996-6666  
Medical Emergency (24 hour): 877-935-7387**E-mail** EHS@fujifilm.com

## 2. HAZARDS IDENTIFICATION

**Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2

**GHS Label elements, including precautionary statements**

Warning

**Hazard Statements**

Causes skin irritation  
Causes serious eye irritation

**Precautionary Statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Storage**

Not applicable

**Disposal**

Not applicable

**Hazards not otherwise classified (HNOC)**

Not classified

**Other hazards**

Harmful to aquatic life  
Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
FERRIC AMMONIUM EDTA	21265-50-9	20-40%
AMMONIUM NITRATE	6484-52-2	1-5%
AMMONIUM HYDROXIDE	1336-21-6	0.1-1%

### 4. FIRST AID MEASURES

**First aid measures for different exposure routes****General advice**

Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. If symptoms persist, call a physician.

**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/

attention.

**Skin contact** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** If swallowed, do not induce vomiting - seek medical advice.

**Protection of First-aiders** Use personal protective equipment.

**Most important symptoms/effects, acute and delayed**

May cause redness, itching, and pain.

**Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**

None known.

**Specific hazards arising from the chemical**

None known.

**Hazardous Combustion Products**

Carbon oxides. Nitrogen oxides (NOx). Ammonia.

**Explosion Data**

**Sensitivity to Mechanical Impact** none

**Sensitivity to Static Discharge** none

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Use personal protective equipment. Cover liquid spill with sand, earth or other

noncombustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs
FERRIC AMMONIUM EDTA	TWA: 1 mg/m <sup>3</sup> Fe	(vacated) TWA: 1 mg/m <sup>3</sup> Fe	TWA: 1 mg/m <sup>3</sup> Fe	

### Exposure controls

**Engineering Measures** Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and body protection** Wear protective gloves/clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	dark, red brown	<b>Odor</b>	none
<b>Odor Threshold</b>	Not available	<b>Physical State @20°C</b>	Aqueous Solution
<b>pH</b>	5.9	<b>Molecular Weight</b>	Not available
<b>Specific Gravity</b>	1.16	<b>Autoignition temperature</b>	Not available
<b>Flash point</b>	> 201 °F / > 94 °C	<b>Boiling point / boiling range</b>	> 212 °F / > 100 °C
<b>Decomposition temperature</b>	Not available	<b>Freezing Point</b>	Not available
<b>Melting point / melting range</b>	Not available		
<b>Flammability Limit in Air</b>	Not available		
<b>Oxidizing Properties</b>	Not available	<b>Explosive Properties</b>	Not available
<b>Solubility</b>	Soluble in water	<b>Partition coefficient</b>	Not available
<b>Evaporation rate</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor density</b>	Not available	<b>Density</b>	Not available
<b>VOC (lb/gal)</b>	0	<b>VOC (g/l)</b>	0
<b>Dynamic viscosity</b>	Not available		

## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under recommended storage conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Excessive heat. Freezing. This product contains an ammonia compound. Do not allow this solution to come in contact with household or industrial bleaches (Sodium Hypochlorite). Mixing of these chemicals can result in the release of hazardous or toxic gases. Inhalation of these gases may cause severe respiratory irritation.

### Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases. Sodium hypochlorite.

### Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Ammonia.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

#### **Acute toxicity**

##### **Inhalation**

Non-irritating during normal use.

##### **Eyes**

Irritating to eyes. May cause redness and tearing.

##### **Skin**

Irritating to skin. May cause itching. Repeated exposure may cause skin dryness or cracking.

##### **Ingestion**

Ingestion may cause stomach discomfort.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
AMMONIUM NITRATE	= 2217 mg/kg ( Rat )		> 88.8 mg/L ( Rat ) 4 h
AMMONIUM HYDROXIDE	= 350 mg/kg ( Rat )		

### Information on toxicological effects

No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### **Irritation**

Irritating to eyes and skin.

#### **Corrosivity**

No information available.

#### **Sensitization**

No information available.

#### **Mutagenic Effects**

No information available.

#### **Reproductive Toxicity**

No information available.

#### **Carcinogenicity**

None known.

<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic toxicity</b>	Avoid repeated exposure. May cause adverse liver effects.
<b>Target Organ Effects</b>	Eyes, Gastrointestinal tract (GI), Liver, Respiratory system, Skin.
<b>Aspiration hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 42354 mg/kg

ATE: Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Algae toxicity	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
AMMONIUM HYDROXIDE		Pimephales promelas: 8.2 mg/L at 96 h		

**Persistence and degradability**

No information available.

**Bioaccumulation**

Chemical Name	Octanol Water Partition Coefficient (log pow)
AMMONIUM NITRATE	-3.1

**Mobility**

No information available.

**Other adverse effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

Dispose of in accordance with local regulations.

**Contaminated packaging**

Do not re-use empty containers.

<b>14. TRANSPORT INFORMATION</b>
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<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>ADR/RID</u>	Not regulated
<u>ADN</u>	Not regulated

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

TSCA	Yes
DSL/NDSL	Yes
PICCS	Yes
EINECS/ELINCS	Yes
ENCS	Yes
IECSC	Yes
KECL	Yes
AICS	Yes

\*Yes - All component(s) of this product are included or are exempt from listing on the inventory.

\*No - Indicates the component(s) of this product are either not listed or have not been determined to be listed on the inventory.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**U.S. Federal Regulations****TSCA Sections 4, 5 and 12(b)**

This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS No	SARA 313 - Threshold	Weight-%
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		Values %	
FERRIC AMMONIUM EDTA	21265-50-9	1.0	20-40%
AMMONIUM NITRATE	6484-52-2	1.0	1-5%

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	no
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	no

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
AMMONIUM HYDROXIDE	1000 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
AMMONIUM HYDROXIDE	1000		RQ 1000 lb final RQ RQ 454 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
FERRIC AMMONIUM EDTA					X
AMMONIUM NITRATE	X	X	X	X	X
AMMONIUM HYDROXIDE	X	X	X		

**International Regulations****Canada - NDSL**

This product does not contain any NDSL chemicals.

**Mexico - Grade**

Slight risk, Grade 1

**Mexico - Carcinogen Status and Exposure Limits**

Chemical Name	Carcinogen Status	Exposure Limits
FERRIC AMMONIUM EDTA		Mexico: TWA 1 mg/m <sup>3</sup> Mexico: STEL 2 mg/m <sup>3</sup>

**Other Regulations**

No information available



**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 1</b>	<b>Instability 0</b>	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2</b>	<b>Flammability 1</b>	<b>Physical Hazard 0</b>	<b>Personal protection C</b>

**Prepared By** FUJIFILM Environment, Health and Safety, phone: 800-473-3854

**Revision Date** 25-Nov-2015

**Revision Note** No information available

**Disclaimer** **The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

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