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 Last Revision Date: 21 Sep 2018
 Product No.: CT-308

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 **Product Name** RA-P2R Bleach-Fixer Replenisher Part A
 1.2 **Product Code:** 830083 / 730083
 1.3 **Recommended Use and Restriction on Use:** For processing of Photographic Color Paper.
 1.4 **Manufacturer:** FUJIFILM Asia Pacific Pte. Ltd.
 UEN: 199301558N
 1.5 **Address:** 15 Tuas Avenue 7
 Singapore 639270
 1.6 **Business Phone Number:** (65) 6862 2116 (Operating hours: 0830-1730 hours Mondays-Fridays)
Fax: (65) 6861 4829
Emergency Phone Number: (65) 6863 8753

SECTION 2: HAZARDS IDENTIFICATION

2.1 GHS Classification:

Hazard Class	Hazard Category	Hazard Statement
Acute toxicity (Oral):	Category 5	May be harmful if swallowed.
Skin corrosion/irritation:	Category 2	Causes skin irritation.
Serious eye damage/irritation:	Category 2	Causes eye irritation.

2.2 GHS label elements

Pictograms:



2.3 Signal Word: Warning

2.4 Precautionary Statements:

Prevention

Wash your hands and face thoroughly after handling.
 Wear protective gloves, clothing and eye/face protection.

Response

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
 IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention.
 Take off contaminated clothing and wash before reuse.
 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 attention.

Storage

Store in a well-ventilated place. Keep cool.

2.5 Disposal:

None.

Other Hazards Which Do Not Result in Classification

Primary Hazards

None.

Specific Hazards

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None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance or Preparation: This product is a mixture.

Chemical Name	CAS No.	% by Weight
Water	7732-18-5	70 - 75
Ammonium thiosulfate	7783-18-8	35 - 40
Ammonium bisulfite	10192-30-0	1 - 5
Sodium bisulfite	7631-90-5	1 - 5

SECTION 4: FIRST-AID MEASURES

4.1 Inhalation:

- Move the victim into the fresh air, keep him or her warm and quiet, cover with a blanket, and send for immediate medical assistance.
- If the victim is not breathing or is breathing very weakly, loosen his or her clothing in order to secure an airway and begin artificial respiration.
- If the casualty is unconscious, but breathing, or is conscious but experiencing breathing difficulties, the provision of oxygen is effective. It is preferable to do this under medical supervision.
- No medicine other than oxygen may be dispensed. No food may be given to the victim without the physician's direction.

4.2 Skin Contact:

- If it is spilled on the skin, wash off with copious amounts of soap and water.
- Remove the contaminated clothes, shoes, etc., immediately. Cut the clothing off if necessary. Subsequently, rinse the skin with cool or tepid running water for at least 30 minutes.
- Immediate medical attention is required.

4.3 Eye Contact:

- If a contact lens is in place, remove it and wash the eye with warm running water for at least 15 minutes, unless the lens is firmly attached to the eye. Use physiological saline if it is readily available.
- Do not stop rinsing the eye. During the rinse, open the eyelid with your fingers so that water can reach under the eyelid. Send for an ophthalmologist immediately. An ophthalmological examination is absolutely essential because the possibility exists that there may be after effects even if there are no immediate pain or vision problems.

4.4 Ingestion:

- If it is swallowed, call a doctor immediately.
- Do not attempt to make the victim vomit.
- Rinse the mouth out thoroughly with water.
- Give the casualty 1-2 glasses of water to dilute the quantity of the substance in the stomach. (If milk is readily available, this can be given to the casualty after the water.)
- If the victim vomits of his/her own accord, bend his/her body so as to prevent vomit from entering the lungs. After vomiting, allow the victim to drink more water. Keep the victim warm and send for a doctor immediately and show SDS or label.

4.5 Likely Acute or Delayed:

- None.

4.6 Note to Physician:

- None.

4.7 Protection of First-Aid Providers:

- First-aid personnel should wear personal protection equipment when assisting the casualty.

SECTION 5: FIRE-FIGHTING MEASURES

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5.1 Suitable Fire-Extinguishing Media:

- Foam (alcohol-resistant foam), powder, and carbon dioxide are effective fire-extinguishing agents.

5.2 Unsuitable Extinguishing Media:

- None under normal conditions.

5.3 Hazardous Combustion Products:

- Ammonia, carbon oxides, nitrogen oxides, sulfur oxides.

5.4 Special Protective Actions for Fire Fighters:

- Cool the container(s) surface that is exposed to fire by spraying the surface with water.
- When fighting the fire, wear protective equipment (i.e. respiratory masks, self contained breathing apparatus, chemical protection suit, gloves, boots, goggles, mask, etc.) as needed to avoid inhaling and/or skin contact with the chemical substance. Extinguish from the upwind direction.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Measures:

- Wear protective equipment (i.e. respiratory masks, self contained breathing apparatus, chemical protection suit, gloves, boots, goggles, mask, etc.) as needed to avoid inhaling and/or skin contact with the chemical and/or vapours, if any. Work upwind, if possible.
- See Section 8 of this SDS for Personal Protective Equipment.

6.2 Environmental Precautions:

- Do not allow to enter drains, sewers or water courses.
- The chemical substance in question should not be released into the environment (water, soil).

6.3 Spill Containment and Cleaning Up:

Minor Spills

- Avoid chemical contact by using personal protective equipment.
- Clean up spills immediately.
- Contain and absorb spill with sand, earth or other suitable absorbent material.
- Place spilled material in clean, dry, sealable, labelled container for disposal.

Major Spills

- Clear area of personnel and move upwind.
- Call SCDF or local Fire Brigade.
- Wear full body protective clothing with appropriate respiratory masks (including self contained breathing apparatus).
- Prevent, by any means available, spillage from entering drains or water course.
- Stop leak if safe to do so.
- Contain spill with sand, earth or other suitable absorbent material.
- Collect recoverable product into labelled containers for recycling.
- Neutralise/decontaminate residue.
- Collect solid residues and seal in labelled drums for disposal.
- Wash area and prevent runoff into drains.
- After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.
- If contamination of drains or waterways occurs, advise local Environmental Agency or Authority.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.

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- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

7.2 Conditions for Safe Storage:

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Keep out of reach of children.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters/Occupational Exposure Limits:

Ingredient	CAS No.	PEL/OEL	Source
Ammonium thiosulfate	7783-18-8	35 mg/m ³	ACGIH TLV-STEL
Ammonium thiosulfate	7783-18-8	25 mg/m ³	ACGIH TLV-TWA
Ammonium bisulfite	10192-30-0	2ppm for SO ₂	ACGIH TLV
Ammonium bisulfite	10192-30-0	5ppm for SO ₂	OHSA TWA
Sodium bisulfite	7631-90-5	Not established	Not established

8.2 Appropriate Engineering Controls:

- Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator.

8.3 Personal Protective Equipment:

- Use the following protective equipment as needed:
- **Respiratory Protection:** Respiratory masks or Self contained breathing apparatus where needed.
- **Eye Protection:** Wear approved safety goggles.
- **Hand Protection:** Wear protective gloves. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.
- **Skin Protection:** Apron and long sleeves are recommended. Wear suitable protective clothing.
- **Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance Physical State:	Clear liquid	
9.2	Colour:	Colourless	
9.3	Odour:	Slight ammonia odour	
9.4	Odour Threshold:	Not applicable	
9.5	Property	Value	Notes
	Melting Point	0°C	
	Boiling Point	100°C	
	Flash Point	Not applicable (Not flammable)	Closed cup
	Explosive Limit	Not applicable	Lower limit
	Explosive Limit	Not applicable	Upper limit
	Vapour Pressure	Not applicable	mmHg @ 20°C
	Vapour Density	Not applicable	Air=1
	Relative Density	1.28	25°C
	Solubility in Water	Completely soluble	Water at 20°C
	Solubility (Other)	Not applicable	

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Partition Coefficient: n-octanol/water	Not applicable	
Viscosity	Not applicable (like water)	
pH	5.32	25°C
Evaporation Rate	Not applicable	Butyl Acetate = 1
Flammability (Solid, Gas)	Not applicable	
Auto-Ignition Temperature	Not applicable (Not flammable)	
Decomposition Temperature	Unknown	

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity/Incompatible Materials:

- Sodium hypochlorite, Strong oxidizing agents. Reducing agents.

10.2 Chemical Stability:

- Stable under normal temperature and pressure.

10.3 Possibility of Hazardous Reaction:

- Hazardous polymerisation will not occur.

10.4 Conditions to Avoid:

- Excessive heat, contact with incompatible materials. This product contains an ammonia compound. Mixing of this product with household or industrial bleaches (Sodium Hypochlorite) can result in the release of hazardous or toxic gases. Inhalation of these gases may cause severe respiratory tract irritation.

10.5 Hazardous Decomposition Products:

- Ammonia, carbon oxides, nitrogen oxides, sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity on Product Mixture:

- Oral LD₅₀ No data available.
- Dermal LD₅₀ No data available.
- Inhalation LC₅₀ No data available.

11.2 Acute Toxicity on Ingredients:

Chemical Name	CAS No.	Acute Oral (LD50 mg/kg)	Test Animal
Ammonium thiosulfate	7783-18-8	3560	Rat
Ammonium bisulfite	10192-30-0	Not established	Not established
Sodium bisulfite	7631-90-5	> 2000	Rat

11.3 Skin Corrosion/Irritation:

- Causes skin irritation.

11.4 Serious Eye Damage/Irritation:

- Causes eye irritation.

11.5 Respiratory Organ or Skin Sensitisation:

- None.

11.6 Germ Cell Mutagenicity:

- None.

11.7 Carcinogenicity:

- None.

11.8 Reproductive Toxicity:

- None.

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11.9 Specific Target Organ Toxicity:

- None.

11.10 Aspiration Hazard

- Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity of Product Mixture:

- No data available.

12.2 Ecotoxicity on Ingredients:

Chemical Name	CAS No.	Fish Toxicity	Marine Organism
Ammonium Thiosulfate	7783-18-8	Not established	Not established
Ammonium Bisulfite	10192-30-0	LC ₅₀ : 299 mg/l	Daphnia magna
Sodium bisulfite	7631-90-5	EC ₅₀ (48hr):119 mg/l	Daphnia magna

12.3 Persistence and Degradability:

- No data on possible environmental effects have been found.

12.4 Bioaccumulative Potential:

- No data available on bioaccumulation.

12.5 Mobility:

- The product is water soluble and may spread in water systems.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal Method in Singapore:

- Dispose off in accordance to the Environmental Public Health (Toxic Industrial Waste) Regulations under the Environmental Protection and Management Act (EPMA).

13.2 Disposal Method Overseas:

- Dispose off in accordance with all applicable local or national regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 Land (ADR):

- UN Number: Not applicable.
- Class: Not classified as dangerous material.
- Subsidiary Risk: Not regulated
- Packing Group: Not regulated.
- Proper Shipping Name: Not regulated.

14.2 Sea (IMDG):

- UN Number: Not applicable.
- Class: Not classified as dangerous material.
- Subsidiary Risk: Not regulated.
- Packing Group: Not regulated.
- Proper Shipping Name: Not regulated.
- Marine Pollutant (Yes/No): Not regulated.
- Packing Instructions: Not regulated.
- Limited quantity: Not applicable.
- Further Information: Material not classified for transport at sea.

14.3 Sea (Annex II of MARPOL 73/78 and the IBC Code):

- Pollution Category: Not applicable.

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- Ship Type: Not applicable.
- Product Name: Not applicable.

14.4 Air (IATA):

- UN Number: Not applicable.
- Class: Not classified as dangerous material.
- Subsidiary Risk: Not regulated.
- Packing Group: Not regulated.
- Proper Shipping Name: Not regulated.
- Further Information: Material not classified for air transport.

14.5 Special Precautions:

- Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Applicable Singapore Regulations:

- Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations:
This product is subject to the SDS, labelling, PEL and other requirements in the act/regulation.
- Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations:
This product is subject to the requirements in the act/regulation.

SECTION 16: OTHER INFORMATION

16.1 Issued By:

- FUJIFILM Asia Pacific Pte. Ltd.
- This SDS is prepared in accordance with Singapore Standard SS 586 : Part 3 : 2014.

16.2 Warranty:

- The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.