

# SAFETY DATA SHEET

Issuing Date: 02-Nov-2020

Version 1

## EC-ADM P1-R Developer Replenisher

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** EC-ADM P1-R Developer Replenisher  
**Product code** 600021484P1  
**Product Use** Photographic processing of color paper.

**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 North America Corporation  
 200 Summit Lake Drive  
 Valhalla, NY 10595-1356

**SDSs are available at the following website(s):** <https://www.fujifilm.com/us/en/support/msds/search>

**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 1
Serious eye damage/eye irritation	Category 1

**GHS Label elements, including precautionary statements**

Danger

**Hazard Statements**

Causes severe skin burns and eye damage



**Precautionary Statements**

**Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Response**

Immediately call a POISON CENTER or doctor/physician  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

**Storage**

Not applicable

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not classified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
POTASSIUM CARBONATE	584-08-7	7-13%
POLYETHYLENE GLYCOL	25322-68-3	1-5%
POTASSIUM HYDROXIDE	1310-58-3	1-5%
EDTA, TETRAPOTASSIUM SALT	5964-35-2	1-5%

\*The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required.
<b>Eye contact</b>	Do not rub affected area. Keep eye wide open while rinsing. In case of contact with substance, immediately flush eyes with running water for at least 30 minutes. Call a physician immediately.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 30 minutes. Remove contaminated clothing and shoes. Call a physician immediately.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention/advice.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes or clothing.

### Most important symptoms and effects, both acute and delayed

Burning sensation. Redness.

### Indication of any immediate medical attention and special treatment needed

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. 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

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

### Hazardous Combustion Products

Carbon oxides. Sulfur oxides. Nitrogen oxides (NOx). Potassium oxides. Amines.

### 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. Prevent product from entering drains.

**Methods and material 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. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

**Other information** Refer to protective measures listed in Sections 7 and 8.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. In case of insufficient ventilation, wear suitable respiratory equipment.

**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
POLYETHYLENE GLYCOL				10 mg/m <sup>3</sup> TWA molecular weight>200 aerosol
POTASSIUM HYDROXIDE	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	

**Appropriate engineering controls**

**Engineering Measures** Ventilation systems

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

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

**Skin and body protection** Wear protective gloves/clothing. Protective shoes or boots.

**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>	Clear, Yellow	<b>Physical state</b>	Liquid
<b>Form</b>	Aqueous Solution		
<b>Odor</b>	None	<b>Odor Threshold</b>	Not available
<b>pH</b>	> 13.4		
<b>Specific Gravity</b>	1.20	<b>Molecular Weight</b>	Not available
<b>Flash point</b>	> 201 °F / > 94 °C	<b>Autoignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available	<b>Boiling point / boiling range</b>	> 212 °F / > 100 °C
<b>Melting point / melting range</b>	Not available	<b>Freezing Point</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>		<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. Exposure to air or moisture over prolonged periods.

### Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents. Nitrites.

### Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides. Sulfur oxides. Nitrogen oxides (NOx). Potassium oxides. Amines.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

### Product Information

### Acute toxicity

<b>Inhalation</b>	Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause additional affects as listed under "Ingestion".
<b>Eyes</b>	Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin</b>	Causes burns.
<b>Ingestion</b>	Ingestion causes burns of the upper digestive and respiratory tracts.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
POTASSIUM CARBONATE	> 2000 mg/kg ( Rat )		
POLYETHYLENE GLYCOL	= 22 g/kg ( Rat ) = 28 g/kg ( Rat )	> 20 g/kg ( Rabbit )	
POTASSIUM HYDROXIDE	214 mg/kg ( Rat )		

**Symptoms related to the physical, chemical and toxicological characteristics**

No information available.

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

<b>Irritation</b>	Causes severe irritation and or burns.
<b>Corrosivity</b>	Corrosive to skin. Corrosive to eyes.
<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>Carcinogenicity</b>	None known.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target organ effects** Eyes, Respiratory system, Skin.

**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

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

<b>ATEmix (oral)</b>	9726 mg/kg
<b>ATEmix (dermal)</b>	600064 mg/kg

**ATE: Acute toxicity estimate**

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**Persistence and degradability**

No information available.

**Bioaccumulation**

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Chemical name	Partition coefficient
POTASSIUM HYDROXIDE	0.65 0.83

**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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**DOT**

**Proper Shipping Name** Limited Quantity, Exempt from shipping papers

**TDG**

**Proper Shipping Name** Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE)  
**UN/ID No** UN3266  
**Transport hazard class(es)** 8  
**Packing Group** III  
**Description** UN3266, Corrosive liquid, basic, inorganic, n.o.s (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE), 8, III

**MEX**

**Proper Shipping Name** Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE)  
**UN/ID No** UN3266  
**Transport hazard class(es)** 8  
**Packing Group** III  
**Description** UN3266, Corrosive liquid, basic, inorganic, n.o.s (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE), 8, III

**ICAO (air)**

**Proper Shipping Name** Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE)  
**UN/ID No** UN3266  
**Transport hazard class(es)** 8  
**Packing Group** III  
**Description** UN3266, Corrosive liquid, basic, inorganic, n.o.s (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE), 8, III

**IATA**

**Proper Shipping Name** Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE)  
**UN number or ID number** UN3266  
**Transport hazard class(es)** 8  
**Packing group** III  
**Description** UN3266, Corrosive liquid, basic, inorganic, n.o.s (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE), 8, III

**IMDG**

**UN proper shipping name** Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE)  
**UN number or ID number** UN3266  
**Transport hazard class(es)** 8  
**Packing group** III  
**EmS-No.** F-A, S-B  
**Description** UN3266, Corrosive liquid, basic, inorganic, n.o.s (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE), 8, III, Ltd. Qty

**ADR**

**Proper Shipping Name** Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE)  
**UN/ID No** UN3266  
**Transport hazard class(es)** 8



<b>Packing Group</b>	III
<b>Classification Code</b>	C5
<b>Description</b>	UN3266, Corrosive liquid, basic, inorganic, n.o.s (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE), 8, III

**ADN**

<b>Proper Shipping Name</b>	Corrosive liquid, basic, inorganic, n.o.s. (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE)
<b>UN/ID No</b>	UN3266
<b>Transport hazard class(es)</b>	8
<b>Packing Group</b>	III
<b>Classification Code</b>	C5
<b>Description</b>	UN3266, Corrosive liquid, basic, inorganic, n.o.s (POTASSIUM HYDROXIDE, POTASSIUM CARBONATE), 8, III
<b>Limited quantity</b>	5 L

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

<b>TSCA</b>	Yes
<b>DSL/NDL</b>	Yes
<b>PICCS</b>	Yes
<b>EINECS/ELINCS</b>	No
<b>ENCS</b>	No
<b>IECSC</b>	Yes
<b>KECL</b>	Yes
<b>AIICS</b>	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/NDL** - 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  
**AIICS** - Australian Inventory of Industrial Chemicals

**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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Classification is shown in section 2 of this SDS

**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	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
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	Quantities			Substances
POTASSIUM 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
POTASSIUM 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
POTASSIUM HYDROXIDE	X	X	X		X

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

Chemical name	NDSL
DIETHANESULFONIC ACID DERIVATE	X
PARA-PHENYLENEDIAMINE DERIVATIVE	X

**Mexico - Grade**

Slight risk, Grade 1

**Mexico - Carcinogen Status and Exposure Limits**

Chemical name	Mexico	Exposure Limits
POTASSIUM HYDROXIDE		Mexico: Ceiling 2 mg/m <sup>3</sup>

**Other Regulations**

No information available

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health hazards</b> 3	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and chemical properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 3	<b>Flammability</b> 1	<b>Physical hazards</b> 0	<b>Personal protection</b> C

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

**Revision Date** 02-Nov-2020

**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.**

**end**