

#### **MATERIAL SAFETY DATA SHEET**

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Identification of the substance or mixture

Product name: RP X-OMAT Fixer and Replenisher, Part B

Product code: 6610059B
Pure substance/mixture Mixture

Use of the Substance/Mixture

Product Use: Photographic film.

Restrictions on use Restricted to professional users

Company/Undertaking Identification

Supplier Carestream Health Japan Co., Ltd., 2-27-1 Shinkawa, Chuo-ku, Tokyo, Japan

#### For further information, please contact:

For environment, health and safety information, email: WW-EHS@carestreamhealth.com

Emergency telephone

Emergency telephone +(81)-345209637

### HAZARDS IDENTIFICATION

Classification of the substance or mixture

Serious eye damage/eye irritation	Category 1
Corrosive to Metals	Category 1

GHS Label elements, including precautionary statements



### Hazard statements

H318 - Causes serious eye damage H290 - May be corrosive to metals Product code: 6610059B Revision Date 2013-04-04

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#### **Precautionary Statements**

P234 - Keep only in original container

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P390 - Absorb spillage to prevent material damage

P406 - Store in corrosive resistant stainless steel container with a resistant inliner

#### Other hazards which do not result in classification

#### **General Hazards**

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %	
Water	75 - 80	
Aluminum sulfate	20 - 25	

#### 4. FIRST AID MEASURES

## Description of necessary first-aid measures

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Call a physician immediately.

**Skin contact** Wash off immediately with plenty of water. If skin irritation persists, call a physician .

**Inhalation** Move to fresh air in case of accidental inhalation of vapors or decomposition products.

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

# Most important symptoms/effects, acute and delayed

**Skin contact** May cause skin irritation and/or dermatitis.

**Eye contact** Causes eye irritation.

**Inhalation** May cause irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Notes to physician Treat symptomatically.

### FIRE-FIGHTING MEASURES

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Suitable Extinguishing Media

Suitable Extinguishing Media The product is not flammable. Use extinguishing measures that

are appropriate to local circumstances and the surrounding

environment.

Extinguishing media which shall not be used for safety

reasons

None.

Specific hazards arising from the chemical

Special Hazard Thermal decomposition can lead to release of irritating gases and

vapors.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

Other information

Other information Keep containers and surroundings cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with eyes.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up

Dike far ahead of liquid spill for later disposal.

Dam up. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

Other information

See Section 12 for additional Ecological information.

HANDLING AND STORAGE

Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Avoid contact with eyes.

**Technical measures** Metal containers must be lined.

Conditions for safe storage, including any incompatibilities

**Technical measures/Storage** 

conditions

Keep container tightly closed in a dry and well-ventilated place.

Materials to Avoid None reasonably foreseeable.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

#### **Exposure limits**

## Appropriate engineering controls

Engineering Measures When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of

air suitable for breathing and wear the recommended equipment. Ensure that eyewash

stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment (PPE)

**Personal Protective Equipment** 

**General Information** If the product is used in mixtures, it is recommended that you contact the appropriate

protective equipment suppliers. These recommendations apply to the product as supplied.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

**Eye Protection** Tightly fitting safety goggles.

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

Hand Protection Protective gloves

Hygiene measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area

and clothing. Wash hands before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid

**ph** 2.3

Flash point: Does not flash

Boiling point/boiling range > 100 °C / 212 °F

Odor Odorless Color colorless

Autoignition temperature: No information available

Vapor Pressure 24 hPa @ 20 °C

Vapor density 0.6

**Density** No information available

Water Solubility No information available completely soluble

Melting point/range: No information available

Specific Gravity 1.298

Bulk Density: No information available

### 10. STABILITY AND REACTIVITY

#### Reactivity

No dangerous reaction known under conditions of normal use Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

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None under normal processing.

### Conditions to Avoid

To avoid thermal decomposition, do not overheat.

#### Materials to Avoid

None reasonably foreseeable.

### Hazardous Decomposition Products

Sulfur oxides.

### 11. TOXICOLOGICAL INFORMATION

# Acute toxicity - Product Information

**Skin contact** May cause skin irritation and/or dermatitis.

**Eye contact**Inhalation

Causes eye irritation.

May cause irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

 Oral
 24,296.12 mg/kg

 Dermal
 >5000 mg/kg

Inhalation

Gas No information available

 Mist
 5 mg/L

 Vapor
 >20 mg/L

**Acute toxicity - Component Information** 

route texions Compension in			
Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90,000 mg/kg (Rat)		
Aluminum sulfate	> 5000 mg/kg (Rat)		

Chemical Name	Other applicable information
Aluminum sulfate	Severe eye irritation
	No skin irritation
	Cell transformation assay: negative
	Ingestion may cause gastrointestinal irritation, nausea, vomiting
	and diarrhea

**Aggravated Medical Conditions** 

Preexisting eye disorders, Skin disorders, Respiratory disorders.

Subchronic toxicity

Chronic toxicity

SensitizationNo information available.Neurological effectsNo information available.Target Organ EffectsNone known.

CMR Effects

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### 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated

### Acute aquatic toxicity Product Information

No information available

Acute aquatic toxicity. Component Information

Acute aquatic toxicity component information				
Chemical Name	cal Name Toxicity to algae Toxicity to fi		Toxicity to daphnia and other	
			aquatic invertebrates	
Aluminum sulfate		LC50= 100 mg/L Carassius auratus	EC50 = 136 mg/L 15 min (Daphnia	
		96 h LC50= 37 mg/L Gambusia	magna)	
		affinis 96 h		

### Persistence and degradability

No information available

### **Bioaccumulative potential**

No information available

### Mobility in soil

No information available

Other adverse effects No information available

### 13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused

**Products** 

Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

### 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.

### ADR/RID

**UN/ID No** UN3264

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s.

**ALUMINIUM SULPHATE Technical Name** 

**Hazard class Packing Group** Ш **Classification Code** C1 ADR/RID-Labels 8 **Special Provisions** 274 Page 7/8

ADR Hazard Id (Kemmler 80

Number)

Product code: 6610059B

Limited Quantity LQ7

IMDG/IMO

UN/ID No UN3264

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s.

Technical Name Aluminium sulphate

Hazard class 8
Packing Group III
Marine Pollutant NP
EmS No. F-A, S-B
Special Provisions 223, 274
Limited quantity DFDA 5 L

ICAO/IATA

UN/ID No UN3264

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s.

Technical Name Aluminium sulphate

Hazard class 8
Packing Group III
ERG Code 8L
Special Provisions A3
Limited quantity DFDA 1 L

ADN Not regulated

UN/ID No UN3264

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s.

Technical Name ALUMINIUM SULPHATE

Hazard class 8
Packing Group III
Classification Code C1
Special Provisions 274
Limited quantity DFDA LQ7

DOT

UN/ID No UN3264

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s.

Technical Name Aluminum sulfate

Hazard class 8
Packing Group III

Special Provisions IB3, T7, TP1, TP28

**TDG** 

UN/ID No UN3264

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s.

Technical Name Aluminum sulfate

Hazard class 8
Packing Group |||

For transportation information, go to: http://ship.carestreamhealth.com.

#### 15. REGULATORY INFORMATION

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# International Inventories

**EINECS/ELINCS** Complies Complies **TSCA DSL/NDSL** Complies **ENCS** Complies **IECSC** Complies Complies **KECL** Complies **PICCS** Complies **AICS NZIoC** Complies

#### Legend

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

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

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

**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

NZIoC - New Zealand Inventory of Chemicals

### National regulatory information

Chemical Name	Dangerous Substances	organic solvent	Harmful Substances Whose Names Are to be Indicated on the Label	Biological monitoring
Aluminum sulfate	>1 %	not applicable	not applicable	

#### 16. OTHER INFORMATION

Revision Date 2013-04-04 Revision Note Product name

## Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

**End of Material Safety Data Sheet**