

# SAFETY DATA SHEET

Revision Date 12/26/2018 Revision Number 1.03

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

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

Product Code(s) 5224381B

Supplier Carestream Health, Inc., 150 Verona Street, Rochester, NY, USA 14608

Emergency telephone number

CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

1-800-424-9300 (NORTH AMERICA)

For other information contact: 800-328-2910

Recommended Use Restricted to professional users. Photographic chemical.

## 2. HAZARDS IDENTIFICATION

#### Classification

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

#### Label elements

## **Emergency Overview**

Signal word Danger

#### Hazard Statements

Causes serious eye damage May be corrosive to metals



Appearance aqueous solution

Physical state Liquid

Odor Odorless

#### **Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container.

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

#### llia2

Absorb spillage to prevent material damage.

#### **Precautionary Statement - Storage**

Store in corrosive resistant container with a resistant inliner.

## Hazards not otherwise classified (HNOC)

None

Other hazards which do not result in classification

None.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%	Trade Secret
Water	7732-18-5	90-100	*
7732-18-5			
Aluminum sulfate	10043-01-3	5 - 10	*
10043-01-3			

<sup>\*</sup>The exact percentages (concentrations) have been withheld as trade secrets.

### 4. FIRST AID MEASURES

#### **First Aid Measures**

**General advice** Show this safety data sheet to the doctor in attendance.

Eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

**Skin contact** Wash off immediately with soap and plenty of water. Get medical attention if irritation

develops and persists.

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

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an

unconscious person. If symptoms persist, call a physician.

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

Main Symptoms None known.

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

Notes to physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapors.

### **Hazardous combustion products**

Carbon oxides.

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**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

**Personal precautions** For personal protection see section 8.

Other information See Section 12 for additional information.

Environmental precautions

**Environmental precautions** 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. Dike to collect large liquid spills.

Methods for cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand,

earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent

the formation of vapors, mists and aerosols. Do not eat, drink or smoke when using this

product. Ensure adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep containers tightly closed in a cool, well-ventilated place. Keep at temperatures

between 5°C and 30°C.

**Incompatible products** Oxidizing agents. Strong acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

**Appropriate engineering controls** 

Engineering Measures Apply technical measures to comply with the occupational exposure limits. Where

reasonably practicable this should be achieved by the use of local exhaust ventilation and

good general extraction.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** If splashes are likely to occur, wear:. Goggles.

**Skin and body protection** Wear protective gloves/clothing. Skin contact should be prevented through use of suitable

protective clothing, gloves, and footwear, selected with regard of use conditions and

exposure potential.

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.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **PHYSICAL AND CHEMICAL PROPERTIES**

Physical state Liquid

Appearance aqueous solution Odor Odorless

Color colorless Odor threshold No information available

Property Values Remarks • Method

pH 3.2

Melting point / freezing point No information available

Boiling point / boiling range > 100 °C / 212 °F Flash point 94 °C / 201 °F

Evaporation rate No information available

Flammability (solid, gas) no data available

Upper flammability limit: Unknown
Lower flammability limit: Not flammable

Vapor pressure 24 hPa @ 20.0 °C

Vapor density 0.6

Specific Gravity 1.11 No information available

Water solubility completely soluble

Solubility(ies)

Partition coefficient

Autoignition temperature

Decomposition temperature

Kinematic viscosity

No information available.

No information available

Oxidizing Properties

No information available
Explosive properties

No information available

Other information

Softening pointNo information availableMolecular weightNo information availableLiquid DensityNo information availableBulk densityNo 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

Hazardous polymerization does not occur.

## **Conditions to Avoid**

To avoid thermal decomposition, do not overheat.

## **Incompatible Materials**

Oxidizing agents. Strong acids.

### **Hazardous decomposition products**

Sulfur oxides. Aluminum oxides.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Causes serious eye damage.

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

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

Toxicology data for the components

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		
Water	90,000 mg/kg (Rat)	=	-		
7732-18-5					
Aluminum sulfate	> 5000 mg/kg (Rat)	-	-		
10043-01-3					

## **Component Information**

#### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization**No information available. **Mutagenic effects**No information available.

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration Hazard
No information available.
No information available.
Respiratory system.
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) 46995 mg/kg ppm mg/L

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Aluminum sulfate		100: 96 h Carassius auratus		136: 15 min Daphnia magna
10043-01-3		mg/L LC50 37: 96 h		mg/L EC50
		Gambusia affinis mg/L LC50		_
		static		

<u>Persistence and degradability</u> Not readily biodegradable

Bioaccumulation: No information available

Mobility in soil No information available

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods Dispose of in accordance with local 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.

DOT

UN Number UN3264

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Technical Name Aluminum sulfate

Hazard class 8
Packing Group III

Description UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM

SULFATE), 8, III

Special Provisions IB3, T7, TP1, TP28

**Emergency Response Guide** 

Number

TDG UN Number UN3264

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Technical Name Aluminum sulfate

Hazard class 8
Packing Group III

Description UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminum sulfate), 8, III

IATA

UN Number UN3264

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

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Technical Name Aluminum sulfate

Hazard class 8
Packing Group III

**Description** UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum sulfate), 8, III

ERG Code 8L

**IMDG** 

UN Number UN3264

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Technical Name Aluminum sulfate

Hazard class 8

Packing Group

Description UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminum sulfate), 8, III

EmS-No. F-A, S-B Special Provisions 223, 274

Standard packaging configuration is not in compliance with IATA requirements, so shipment by aircraft is forbidden unless product is re-packaged per appropriate IATA Packing Instruction.

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

## 15. REGULATORY INFORMATION

#### **International Inventories**

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

#### 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

"Does not comply" indicates a component is either not on the public inventory or is subject to exemption requirements. If additional information is needed contact Carestream Health.

## **U.S. Federal Regulations**

#### 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

Acute Health Hazard
Chronic Health Hazard
No
Fire Hazard
Sudden Release of Pressure Hazard
No
Reactive Hazard
No

#### Clean Water Act

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Aluminum sulfate	5000 lb			X

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act

Amendments of 1990.

### **CERCLA**

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA Product RQ
Aluminum sulfate	5000 lb		

#### **TSCA**

This product does not contain any chemicals regulated under TSCA Section 4, Section 5(a), Section 8(a) or Section 8(d).

## **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
Aluminum sulfate	X	X	X		

# International Regulations

Mexico - Grade No information available

## 16. OTHER INFORMATION

NFPAHealth Hazard3Flammability1Instability0HMISHealth Hazard3Flammability1Physical Hazard4

 Issuing Date
 04/14/2014

 Revision Date
 12/26/2018

Revision Note (M)SDS sections updated

**Disclaimer** 

The information provided on this SDS 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 Safety Data Sheet**