

# SAFETY DATA SHEET

Revision Date 12/20/2018 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 A

Product Code(s) 5224381A

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

This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

## Label elements

Appearance aqueous solution Physical state Liquid Odor Vinegar-like

**Emergency Overview** 

Hazards not otherwise classified (HNOC)

None

Other hazards which do not result in classification

None.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical name	CAS No.	Weight-%	Trade Secret
Water 7732-18-5	7732-18-5	40-60	*
Ammonium thiosulfate 7783-18-8	7783-18-8	35 - 45	*

Sodium sulfite	7757-83-7	1-5	*
7757-83-7			

4. FIRST AID MEASURES

**First Aid Measures** 

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

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention if irritation persists.

**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 agent suitable for type of surrounding fire.

## **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.

## **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** Avoid contact with the skin and the eyes. 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

Avoid contact with skin, eyes and clothing. For personal protection see section 8. Prevent Advice on safe handling

the formation of vapors, mists and aerosols. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

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

Incompatible products Oxidizing agents. Halogenated compounds. Acids. Strong bases. Sodium hypochlorite.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** 

Appropriate engineering controls

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

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** Chemical safety glasses with sideshields. If splashes are likely to occur, wear:. Goggles.

Skin and body protection Wear protective gloves/clothing.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** Liquid

**Appearance** aqueous solution Odor Vinegar-like

Color light yellow Odor threshold No information available

Property Values Remarks • Method

pН 4.8

Melting point / freezing point No information available 212 °F Boiling point / boiling range > 100 °C

Flash point

No information available.

**Evaporation rate** No information available

Flammability (solid, gas) no data available Unknown **Upper flammability limit:** 

Lower flammability limit: Not flammable

Vapor pressure 24 hPa @ 20 °C

Vapor density 0.6

**Specific Gravity** No information available 1.29 Water solubility No information available Solubility(ies) No information available. Partition coefficient No information available **Autoignition temperature** No information available No information available **Decomposition temperature** Kinematic viscosity No information available No information available

Dynamic viscosity
Oxidizing Properties
Explosive properties
No information available
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. Contact with strong bases liberates ammonia. Contact with strong acids liberates sulfur dioxide. Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas).

## **Conditions to Avoid**

To avoid thermal decomposition, do not overheat.

# **Incompatible Materials**

Oxidizing agents. Halogenated compounds. Acids. Strong bases. Sodium hypochlorite.

#### **Hazardous decomposition products**

Nitrogen oxides (NOx). Sulfur oxides. Carbon oxides. Ammonia.

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** May cause irritation of respiratory tract. Some asthmatics or sulfite-sensitive individuals may

experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and

diarrhea.

**Eye contact** May cause slight irritation.

**Skin contact** Substance may cause slight skin irritation.

**Ingestion** Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness,

stomach upset, hives, faintness, weakness 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			
Ammonium thiosulfate 7783-18-8	> 2000 mg/kg (Rat)	-	-
Sodium sulfite	5680 mg/kg (Rat)	<del>-</del>	22 mg/L (Rat)1 h
7757-83-7	Oral LD50 Rat 5680 mg/kg (Source:		Inhalation LC50 Rat >22 mg/L 1 h
	OECD_SIDS)		(Source: IUCLID)

#### **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

SensitizationNo information available.Mutagenic effectsNo 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) 5360 mg/kg
ATEmix (dermal) 50476 mg/kg ppm
ATEmix (inhalation-dust/mist) 164.5 mg/L

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

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

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium sulfite 7757-83-7		220 - 460: 96 h Leuciscus idus mg/L LC50 static		330: 24 h Psammechinus miliaris mg/L LC50

Persistence and degradability Readily biodegradable.

Bioaccumulation:

Chemical name	log Pow
Sodium sulfite	-4
7757-83-7	

Mobility in soil No information available

Other adverse effects 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.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

#### 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** Not regulated

TDG Not regulated

IATA Not regulated

**IMDG** Not regulated

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

## 15. REGULATORY INFORMATION

#### **International Inventories**

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

#### <u>Legend</u>

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 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:

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Chemical name	SARA 313 - Threshold Values %
Ammonium thiosulfate - 7783-18-8	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard 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 acetate	5000 lb			X
Acetic acid	5000 lb			X
Sodium bisulfite	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**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **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

This product contains substances regulated by state right-to-know regulations

	Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ī	Ammonium thiosulfate	X		X		

## International Regulations

## Mexico - Grade

# 16. OTHER INFORMATION

NFPAHealth Hazard0Flammability0Instability0HMISHealth Hazard0Flammability0Physical Hazard0

Revision Date 12/20/2018

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.

<b>Revision Date</b>	12/20/2018
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**End of Safety Data Sheet**