

## SAFETY DATA SHEET

Issuing Date no data available

Revision Date 16 October 2017

Version 3.01

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

#### 1.1. Product identifier

Product code: 5239322B

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

Pure substance/mixture Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Photographic chemical. Restricted to professional users.

Uses advised against No information available

#### 1.3. Details of the supplier of the safety data sheet

Supplier Carestream Health UK Ltd., 1 Park Lane, Hemel Hempstead, Hertfordshire, HP2 4YG

#### For further information, please contact:

Product Information +44 (0)870 6000245

E-mail Address For environment, health and safety information, email: EMEAHS@carestream.com

#### 1.4. Emergency telephone number

Emergency telephone CHEMTREC International 1-703-527-3887  
CHEMTREC UK +(44)-870-8200418

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Chronic aquatic toxicity	Category 3

#### 2.2. Label elements



Danger

Contains Acetic acid

**Hazard Statements**

H312 - Harmful in contact with skin  
H314 - Causes severe skin burns and eye damage  
H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower  
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  
P273 - Avoid release to the environment

**2.3. Other hazards**

**Properties Affecting Health** May be harmful if swallowed.

**Environmental properties** None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical Name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Acetic acid	Present	64-19-7	65-<70	Skin Corr. 1A (H314) Flam. Liq. 3 (H226)	01-2119475328-30

### 4. FIRST AID MEASURES

**4.1. Description of first aid measures**

**General advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

**Eye contact** Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

**Skin contact** Immediate medical attention is required. Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Wash contaminated clothing before reuse.

**Ingestion** Immediate medical attention is required. Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediate medical attention is required. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration.

**Protection of first-aiders** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### **4.2. Most important symptoms and effects, both acute and delayed**

**Main symptoms** Corrosive. Burning. Coughing and/ or wheezing. Difficulty breathing. respiratory distress.  
Causes eye burns.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### **5.1. 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

#### **5.2. Special hazards arising from the substance or mixture**

##### **Special Hazard**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection see section 8.

#### **6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

Refer to protective measures listed in Sections 7 and 8.

#### **6.3. Methods and material for containment and cleaning up**

Dyke far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

### **7. HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Keep container tightly closed.

**Prevention of fire and explosion** No special technical protective measures required.

## 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

**Materials to Avoid** Strong oxidising agents. Bases. Amines. Metals.

## 7.3. Specific end use(s)

**Exposure scenario** No information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters

### Exposure Limits

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Acetic acid 64-19-7	TWA 10 ppm TWA 25 mg/m <sup>3</sup>		STEL 10 ppm STEL 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup> STEL 15 ppm STEL 37 mg/m <sup>3</sup>	AGW 10 ppm AGW 25 mg/m <sup>3</sup>
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Acetic acid 64-19-7		TWA 10 ppm TWA 25 mg/m <sup>3</sup> STEL 15 ppm	TWA 25 mg/m <sup>3</sup>	TWA 5 ppm TWA 13 mg/m <sup>3</sup> STEL 10 ppm STEL 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Acetic acid 64-19-7	STEL 20 ppm STEL 50 mg/m <sup>3</sup> TWA 10 ppm TWA 25 mg/m <sup>3</sup>	SS-C** TWA 10 ppm TWA 25 mg/m <sup>3</sup> STEL 20 ppm STEL 50 mg/m <sup>3</sup>	TWA 25 mg/m <sup>3</sup> STEL 50 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup> STEL 10 ppm STEL 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup> STEL 15 ppm STEL 37 mg/m <sup>3</sup>
Chemical Name	Sweden	Greece	Belgium	Hungary	Czech Republic
Acetic acid 64-19-7	LLV 5 ppm LLV 13 mg/m <sup>3</sup> STV 10 ppm STV 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup> STEL 15 ppm STEL 37 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup> STEL 15 ppm STEL 38 mg/m <sup>3</sup>	STEL 25mg/m <sup>3</sup> TWA 25mg/m <sup>3</sup>	TWA 25 mg/m <sup>3</sup> Ceiling 35 mg/m <sup>3</sup>
Chemical Name	Luxembourg	Russia	Estonia	Latvia	Slovenia
Acetic acid 64-19-7	TWA 10 ppm TWA 25 mg/m <sup>3</sup>	S* MAC 5 mg/m <sup>3</sup>	STEL 10 ppm STEL 25 mg/m <sup>3</sup> TWA 10 ppm TWA 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup>
Chemical Name	Slovakia	Croatia	Turkey	Romania	Bulgaria
Acetic acid 64-19-7	TWA 10 ppm TWA 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup>	TWA 10 ppm TWA 25 mg/m <sup>3</sup>	STEL 37.0 mg/m <sup>3</sup> TWA 25.0 mg/m <sup>3</sup>
Chemical Name	Lithuania	European Union	The United Kingdom	France	Spain
Acetic acid 64-19-7	TWA 10 ppm TWA 25 mg/m <sup>3</sup>				

**Advisory OEL** 1-phenyl-3-pyrazolidone (CAS 92-43-3): TWA 0.2 mg/m<sup>3</sup>

### Biological occupational exposure limits

No information available

**Derived No Effect Level** No information available  
**Predicted No Effect Concentration (PNEC)** No information available

## 8.2. Exposure 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. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation.

**Personal protective equipment**

**General Information** 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. Face-shield.

**Skin and body protection** Impervious clothing. Impervious gloves. Skin contact should be prevented through use of suitable protective clothing, gloves, and footwear, selected with regard of use conditions and exposure potential.

**Hand Protection** Chemical resistant gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

**Hygiene measures** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product.

**Environmental Exposure Controls** No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odour</b>	Pungent
<b>Colour</b>	orange	<b>Odour Threshold</b>	No information available

  

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	0.6	No information available
Melting point/range:		No information available
Freezing Point:		No information available
Boiling point/boiling range		No information available
Flash point:	> 93.4 °C	No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapour pressure		No information available
Vapour density		No information available
Specific Gravity		No information available
Relative density	1.083 g/cm3	No information available
Water Solubility	completely soluble	No information available
Solubility in other solvents		No information available

Partition coefficient: n-octanol/water

Autoignition temperature

Decomposition temperature

Viscosity:

Explosive properties

Oxidising Properties

No information available

No information available

No information available

No information available

No information available

No information available

## 9.2. Other information

Bulk density:

No information available

# 10. STABILITY AND REACTIVITY

## 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

None under normal processing.

## 10.4. Conditions to avoid

Exposure to air or moisture over prolonged periods. Heat, flames and sparks.

## 10.5. Incompatible materials

Strong oxidising agents. Bases. Amines. Metals.

## 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Carbon oxides. Nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### Acute toxicity

### Product Information

#### **Inhalation**

Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate.

#### **Eye contact**

Corrosive to the eyes and may cause severe damage including blindness.

#### **Skin contact**

Causes burns. Harmful in contact with skin.

#### **Ingestion**

Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach. May be harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Acetic acid	3310 mg/kg ( Rat )	1060 mg/kg ( Rabbit )	11.4 mg/L ( Rat ) 4 h Inhalation LC50 Rat 11.4 mg/L 4 h (Source: NLM_CIP)

### Chronic toxicity

**Carcinogenicity** Contains no ingredients above reportable quantities listed as a carcinogen.

**Corrosivity** Risk of serious damage to eyes. Causes burns.

**Sensitisation** May cause sensitisation of susceptible persons.

**Reproductive toxicity** Contains ingredients that are suspected reproductive hazards.

**Target Organ Effects** Respiratory system. Eyes. Skin. Teeth. Blood. Testes. Gastrointestinal tract (GI).

**Symptoms** Causes burns. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Causes severe eye damage.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Ecotoxicity effects** May cause long-term adverse effects in the aquatic environment.

**Unknown aquatic toxicity** 33.51% of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Product Information**  
No information available.

#### **Component Information**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Acetic acid		79: 96 h Pimephales promelas mg/L LC50 static 75: 96 h Lepomis macrochirus mg/L LC50 static	65: 48 h Daphnia magna mg/L EC50 Static 47: 24 h Daphnia magna mg/L EC50

**Chronic aquatic toxicity**  
**Product Information**  
No information available.

**Component Information**  
No information available.

### 12.2 Persistence and degradability

Degradation						
Type:	Method	compartment	Sampling time	Units	Result	Units
Chemical oxygen demand					~ 1162	g/l

(COD)						
Biochemical oxygen demand (BOD)					~ 644	g/l

### **12.3 Bioaccumulative potential**

**Bioaccumulative potential** No information available.

**Partition coefficient: n-octanol/water** No information available

Chemical Name	log Pow
Acetic acid	-0.31

### **12.4 Mobility in soil**

No information available.

### **12.5 Results of PBT and vPvB assessment**

No information available.

### **12.6 Other adverse effects**

No information available

## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

This information is provided to assist users in the correct disposal of working solutions prepared and used to Carestream Health specifications.

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Should not be released into the environment.
<b>Empty containers</b>	If thoroughly cleaned, preferably by rinsing at least three times with small quantities of water, waste product packaging may be consigned for recovery or disposal as non hazardous waste. Whenever possible, minimize waste by using the rinsing water to make up the working solution. The European Waste Catalogue Code is 15 01 02 plastic packaging.
<b>Contaminated packaging</b>	Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Other information</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## **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 have 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.

### **IMDG/IMO**

<b>14.1. UN/ID no</b>	UN2790
<b>14.2. Proper Shipping Name</b>	Acetic acid solution
<b>14.3. Hazard class</b>	8



14.4. Packing Group	II
14.5. Marine pollutant	None
14.6. Special Provisions	None
EmS	F-A, S-B

#### ADR/RID

14.1. UN/ID no	UN2790
14.2. Proper Shipping Name	Acetic acid solution
14.3. Hazard class	8
14.4. Packing Group	II
14.5. Classification Code	C3
14.6. Special Provisions	None
ADR/RID-Labels	8

#### ICAO/IATA

14.1. UN/ID no	UN2790
14.2. Proper Shipping Name	Acetic acid solution
14.3. Hazard class	8
14.4. Packing Group	II
14.5. ERG Code	8L
14.6. Special Provisions	None

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

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

#### International Inventories

EINECS/ELINCS	Complies
TSCA	Complies
DSL/NDL	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
AICS - Australian Inventory of Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

## 16. OTHER INFORMATION

### Full text of H-Statements referred to under section 3

H314 - Causes severe skin burns and eye damage  
H226 - Flammable liquid and vapour  
H302 - Harmful if swallowed  
H411 - Toxic to aquatic life with long lasting effects

**Revision Date** 16 October 2017

**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.

XTable Placeholder