

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

### Identification of the substance or mixture

**Product name:** RP X-OMAT Developer Starter  
KODAK RP X-OMAT Developer Starter

**Product code:** 1332642

**Pure substance/mixture** Mixture  
**Synonyms** PCD 5607

### Use of the Substance/Mixture

Photographic chemical, Restricted to professional users.  
Restricted to professional users.

### Company/Undertaking Identification

**Supplier** CARESTREAM DO BRASIL COMÉRCIO E SERVIÇOS DE PRODUTOS MÉDICOS LTDA  
Rua Dr. Pedro Luiz de Oliveira Costa, 60 - Limoeiro  
São José dos Campos - SP - Brasil  
CEP: 12241-420

### For further information, please contact:

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

For other information contact: 800-328-2910

### Emergency telephone

CHEMTREC Brazil: +(55)-2139581449

## 2. HAZARDS IDENTIFICATION

### Classification According to Standard ABNT NBR 1475:2012

### Classification of the substance or mixture

GHS Classification This material is not classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

### GHS Label elements, including precautionary statements

GHS Classification This material is not classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

### Other hazards which do not result in classification

None known.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

**Symbol(s)**  
Not dangerous

**Label Elements**

**Symbol(s)** Not dangerous.

**R - phrase(s)**  
None

**S-phrase(s)**  
not applicable

**Classification According to US OSHA 1910.1200 (HazCom 1994)**

Warning!  
May be harmful if swallowed  
May cause central nervous system depression

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical Name	Weight %
Water	80-90
Sodium bromide	10-15

4. FIRST AID MEASURES
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**Description of necessary first-aid measures**

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Main Symptoms</b>	None known.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Wash off immediately with plenty of water. If skin irritation persists, call a physician .

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<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms/effects, acute and delayed

<b>Skin contact</b>	None known.
<b>Eye contact</b>	May cause slight irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects.

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

<b>Notes to physician</b>	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES
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Suitable Extinguishing Media

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Extinguishing media which shall not be used for safety reasons</b>	None.

Specific hazards arising from the chemical

<b>Special Hazard</b>	Thermal decomposition can lead to release of irritating gases and vapors.
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Special protective actions for fire-fighters

<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit.
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Other information

<b>Other information</b>	Keep containers and surroundings cool with water spray.
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6. ACCIDENTAL RELEASE MEASURES
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Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes. For personal protection see section 8.

**Advice for emergency responders**  
For personal protection see section 8

## Environmental precautions

Prevent further leakage or spillage if safe to do so.

## Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

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).

## Other information

See Section 12 for additional Ecological information.

# 7. HANDLING AND STORAGE

## Precautions for safe handling

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Wash thoroughly after handling.

## Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep tightly closed in a dry and cool place.

**Materials to Avoid** None under normal processing.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

**Exposure limits** Contains no substances with occupational exposure limit values

**Biological standards** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

## Appropriate engineering controls

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

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

### **Personal Protective Equipment**

<b>General Information</b>	These recommendations apply to the product as supplied.
<b>Respiratory protection</b>	None under normal use conditions.
<b>Eye Protection</b>	Safety glasses with side-shields
<b>Skin and body protection</b>	Wear suitable protective clothing.
<b>Hand Protection</b>	Chemical resistant gloves. Avoid natural rubber gloves.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state** liquid

**ph** 6.6

**Flash point:** > 94 °C

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

**Odor** Odorless

**Color** colorless

**Autoignition temperature:** No information available

**Vapor Pressure** 24 mbar @ 20 °C

**Vapor density** 0.6

**Density** No information available

**Water Solubility** completely soluble

**Melting point/range:** No information available

**Specific Gravity** 1.1

**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

None under normal processing.

### Conditions to Avoid

Heat.

### Materials to Avoid

None under normal processing.

### Hazardous Decomposition Products

Hydrogen bromide.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity - Product Information

#### **Skin contact**

None known.

#### **Eye contact**

May cause slight irritation.

#### **Inhalation**

May cause irritation of respiratory tract.

#### **Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects.

### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90,000 mg/kg ( Rat )		
Sodium bromide	3400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	
<b>Chemical Name</b> Sodium bromide		<b>Other applicable information</b> Ingestion of bromide salts can cause nausea, vomiting, headache, irritability, delirium, memory loss, decreased appetite, joint pain, hallucinations, stupor, coma, and acne like rash on face, legs, and trunk.	

**Aggravated Medical Conditions** None known.

Subchronic toxicity  
no data available

### Chronic toxicity

**Chronic toxicity** Effects expected to be similar to those seen acutely.  
**Sensitization** No information available.  
**Neurological effects** No information available.  
**Target Organ Effects** Gastrointestinal tract (GI), Central nervous system.

### CMR Effects

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

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Acute aquatic toxicity Product Information**  
No information available

### **Acute aquatic toxicity Component Information**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium bromide	5800 - 24000 mg/L EC50 96 h (Scenedesmus pannonicus)	LC50 24000 - 96000 mg/L Oryzias latipes 96 h LC50= 24000 mg/L Oryzias latipes 96 h LC50 16000 - 24000 mg/L Poecilia reticulata 96 h LC50= 16000 mg/L Poecilia reticulata 96 h LC50 15614 - 17428 mg/L Pimephales promelas 96 h LC50> 1000 mg/L Lepomis macrochirus 96 h LC50 0.054 - 0.081 mg/L Oncorhynchus mykiss 96 h LC50> 1000 mg/L Oncorhynchus mykiss 96 h	EC50 5800 - 48000 mg/L 48 h (Daphnia magna) EC50 5700 - 10800 mg/L 48 h (Daphnia magna)

**Persistence and degradability**  
Not readily biodegradable

**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 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.

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

TDG Not regulated

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

### 15. REGULATORY INFORMATION

#### International Inventories

<b>EINECS/ELINCS</b>	Complies
<b>TSCA</b>	Complies
<b>DSL/NDL</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies
<b>NZIoC</b>	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/NDL** - 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

### **International Regulations**

**Mexico - Grade**

Slight risk, Grade 1

16. OTHER INFORMATION
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Revision Date	2013-06-21
Revision Note	Initial Release

#### **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**