

### **MATERIAL SAFETY DATA SHEET**

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

### Identification of the substance or mixture

**Product name:** KODAK X-OMAT MX Fixer and Replenisher, Part 1

Product code: 6585038FIX1

Pure substance/mixture Mixture

## Use of the Substance/Mixture

Photographic chemical.

Restricted to professional users.

## Company/Undertaking Identification

Supplier CARESTREAM o Brasil Comercio e Servicos de Produtos Medicos Ltda

Rodovia Presidente Dutra Km 154,7, Prédio nº 6 - 1º andar, Parte A, São José dos

Campos, São Paulo, CEP 12.240-420

### 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

+(55)-2139581449

## 2. HAZARDS IDENTIFICATION

The preparation is non-dangerous in accordance with Directive 1999/45/EC.

## Classification

Symbol(s) Not dangerous

Classification

## Labeling

Symbol(s)

Not dangerous

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R-phrase(s)

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None

# Other hazards which do not result in classification

Physical-Chemical Properties Dried product residue can act as a reducing agent. Drying of this product on clothing or

combustible materials may cause fire.

**Properties Affecting Health** May be harmful if swallowed. Causes mild skin irritation.

**Environmental properties** Should not be released into the environment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

medical attention immediately if symptoms occur.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing before re-use. Get medical attention immediately if symptoms occur.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

**Ingestion** If swallowed, call a poison control center or doctor immediately. Do not induce vomiting

without medical advice. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person.

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

**Skin contact** Mild skin irritation.

**Eye contact** May cause irritation.

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

stomach upset, hives, faintness, weakness and diarrhea. Contact with strong acids

liberates sulfur dioxide. May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may

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

diarrhea.

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

Notes to physician Treat symptomatically.

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### 5. FIRE-FIGHTING MEASURES

Flash point: See chapter 9. PHYSICAL AND CHEMICAL PROPERTIES

Suitable Extinguishing Media

Suitable Extinguishing Media Use CO2, dry chemical, or foam.

Extinguishing media which shall not be used for safety reasons

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

Specific hazards arising from the chemical

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

vapors. Dried product residue can act as a reducing agent. Reacts violently with oxidizing materials. May cause spontaneous heating and ignition when absorbed on combustible, porous material (e.g. rags, paper, sawdust, cotton, clothing).

Special protective actions for fire-fighters

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

Other information

Other information Cool containers / tanks with water spray. Fire residues and

contaminated fire extinguishing water must be disposed of in

accordance with local regulations.

### ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Do not touch or walk through spilled material. For personal protection see section 8.

## **Environmental precautions**

Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses.

### Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Other information

See Section 12 for additional Ecological information.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8.

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Keep from contact with oxidizing materials, highly oxygenated or halogenated solvents, Prevention of fire and explosion

organic compounds containing reducible functional groups Drying of this product on

clothing or combustible materials may cause fire.

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

Contact with strong acids liberates sulfur dioxide. Contact with strong bases liberates

ammonia.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure limits** Ingredients with workplace control parameters

Appropriate engineering controls

**Engineering Measures** Ensure adequate ventilation.

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

None under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory

protection must be provided in accordance with current local regulations.

Tightly fitting safety goggles If splashes are likely to occur, wear:

**Eye Protection** Skin and body protection

**Hand Protection** 

Wear suitable protective clothing.

Protective gloves

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or **Hygiene measures** 

smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid

**ph** 5.4

**Odor** Acetic Color light yellow

Flash point: Does not flash

Autoignition temperature: No information available

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

Vapor Pressure 24 mbar @ 20 °C @ 20 °C

Vapor density 0.6

**Density** No information available

Volatile organic compounds (VOC) content 45 - 50 %

Water Solubility completely soluble

Melting point/range: No information available

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Specific Gravity 1.31

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, flames and sparks. Take precautionary measures against static discharges.

### Materials to Avoid

Acids. Strong bases. Sodium hypochlorite. Halogenated compounds. Oxidizing agents. Contact with strong acids liberates sulfur dioxide. Contact with strong bases liberates ammonia.

## **Hazardous Decomposition Products**

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

## 11. TOXICOLOGICAL INFORMATION

## Acute toxicity - Product Information

**Skin contact** Mild skin irritation.

**Eye contact** May cause irritation.

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

stomach upset, hives, faintness, weakness and diarrhea. Contact with strong acids

liberates sulfur dioxide. May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may

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

diarrhea.

## Acute toxicity - Component Information

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Chemical Name	Other applicable information

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Ammonium thiosulfate	No skin irritation
	No eye irritation
Sodium thiosulfate	Mild skin irritation
Acetic acid	Severe eye irritation
	Severe skin irritation
	Acute overexposure to extremely high airborne concentrations of respiratory irritants has been associated with development of an asthma-like reactive airways syndrome (RADS) in susceptible individuals. Extremely high airborne concentrations are not generated during normal conditions of use but may occur following a spill. The potential to generate extremely high airborne concentrations in a spill situation depends upon physical factors

Aggravated Medical Conditions

None known.

Subchronic toxicity

no data available

Sodium bisulfite

Chronic toxicity

**Sensitization** May cause sensitization of susceptible persons.

Neurological effects
Target Organ Effects
No information available.
Eyes, Skin, Respiratory system.

**CMR Effects** 

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

IARC: (International Agency for Research on Cancer)
ACGIH: (American Conference of Governmental Industrial Hygienists)

## 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** 

## Persistence and degradability

Expected to be readily biodegradable

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such as the concentration of the solution, the volume of the spill, the surface area of the spill, the size of the room where the spill

occured, and the ventilation rate in the room.

No skin irritation

No eye irritation

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### Bioaccumulative potential

No information available

### 13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products

Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 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

DOT Not regulated

TDG Not regulated

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

## 15. REGULATORY INFORMATION

## International Inventories

"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.

**EINECS/ELINCS** Complies

TSCA Does not comply
DSL/NDSL Does not comply
ENCS Complies
IECSC Complies

KECLDoes not complyPICCSCompliesAICSComplies

AICS Complies
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

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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

Chemical Name	Carcinogen Status	Exposure Limits
Acetic acid		Mexico: TWA 10 ppm Mexico: TWA 25 mg/m <sup>3</sup>
		Mexico: STEL 15 ppm Mexico: STEL 37 mg/m <sup>3</sup>

## 16. OTHER INFORMATION

#### **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**