

#### **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 Developer and Replenisher, Part B

Product code: 8705584B

# 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: 0800 891 7554 891 7555

# Emergency telephone

CHEMTREC Brazil: +(55)-2139581449

# HAZARDS IDENTIFICATION

# Classification According to Standard ABNT NBR 1475:2012

# Classification of the substance or mixture

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Skin corrosion/irritation	Category 1 A
Serious eye damage/eye irritation	Category 1
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

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#### **DANGER**

#### **Hazard statements**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H412 - Harmful to aquatic life with long lasting effects

H226 - Flammable liquid and vapor

#### **Precautionary Statements**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor/ physician

P403 + P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

# Other hazards which do not result in classification

None known.

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

The substance/preparation is classified as dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

#### Symbol(s)

C - Corrosive

### R-code(s)

R10 - C;R34 - R52-53

# **Label Elements**

#### Symbol(s)

C - Corrosive.



C - Corrosive

Version 2

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Contains Acetic acid

# R - phrase(s)

Flammable Causes burns

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### S-phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

S16 - Keep away from sources of ignition - No smoking

S33 - Take precautionary measures against static discharges

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S 7/9 - Keep container tightly closed and in a well-ventilated place

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

DANGER!

COMBUSTIBLE LIQUID AND VAPOR

Corrosive

The product causes burns of eyes, skin and mucous membranes

Harmful if swallowed

Harmful in contact with skin

Harmful by inhalation

#### COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %
Acetic acid	80-90
3-Pyrazolidinone, 1-phenyl-	10-15

#### 4. FIRST AID MEASURES

### Description of necessary first-aid measures

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

in attendance.

Main Symptoms Corrosive

Burning

Coughing and/ or wheezing

Difficulty breathing, respiratory distress

Eye contact Immediate medical attention is required. In case of eye contact, remove contact lens and

rinse immediately with plenty of water, also under the eyelids, 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 while removing all contaminated clothes and shoes.

Inhalation Immediate medical attention is required. Move to fresh air. Artificial respiration and/or

oxygen may be necessary.

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**Ingestion** Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water.

Never give anything by mouth to an unconscious person.

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

Most important symptoms/effects, acute and delayed

**Skin contact** Causes burns.

Eye contact Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

**Inhalation** Corrosive to respiratory system.

**Ingestion** Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

Can burn mouth, throat, and stomach.

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

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

symptomatically.

# FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Alcohol-resistant foam. Dry

chemical.

Extinguishing media which shall not be used for safety

reasons

None.

Specific hazards arising from the chemical

**Special Hazard** The product causes burns of eyes, skin and mucous membranes.

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe

fumes.

Special protective actions for fire-fighters

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

Other information

Other information None known.

#### 6. ACCIDENTAL RELEASE MEASURES

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

Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.

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#### Advice for emergency responders

For personal protection see section 8

### 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.

# Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.

#### Other information

Refer to protective measures listed in Sections 7 and 8.

#### HANDLING AND STORAGE

# Precautions for safe handling

**Advice on safe handling**Use only in area provided with appropriate exhaust ventilation. Ensure adequate ventilation.

Keep away from open flames, hot surfaces and sources of ignition. Wear personal protective equipment. Do not breathe vapors 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 Keep away from open flames, hot surfaces and sources of ignition

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

**Technical measures/Storage** 

conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

open flames, hot surfaces and sources of ignition.

Materials to Avoid Bases. Amines. Metals. Strong oxidizing agents.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure limits**

Chemical Name	ACGIH TLV	Argentina	Brazil	Chile	Venezuela
Acetic acid	STEL 15 ppm TWA: 10 ppm	TWA: 10 ppm STEL: 15 ppm	TWA: 8 ppm TWA: 20 mg/m³	TWA: 8 ppm TWA: 20 mg/m³ STEL: 15 ppm STEL: 37 mg/m³	TWA: 10 ppm STEL: 15 ppm

#### 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. Ensure that eyewash stations and safety showers are close to the workstation location.

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# 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**Use only with adequate ventilation. 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.

**Eye Protection** 

Skin and body protection Hand Protection

Tightly fitting safety goggles Face-shield Impervious gloves. Impervious clothing.

Impervious 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

Contaminated work clothing should not be allowed out of the workplace. Avoid contact with

skin, eyes and clothing. Wear suitable gloves and eye/face protection.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid

**ph** < 1

Flash point: 38.0 - 61 °C (Estimated) Boiling point/boiling range > 100 °C

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 1.074

Bulk Density: No information available

Odor Strong Acetic Color clear orange

Autoignition temperature: 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

Keep away from open flames, hot surfaces and sources of ignition.

#### Materials to Avoid

Bases. Amines. Metals. Strong oxidizing agents.

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# Hazardous Decomposition Products

None under normal use. Thermal decomposition can lead to release of irritating gases and vapors. Nitrogen oxides (NOx). Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

# Acute toxicity - Product Information

Skin contact Causes burns.

Eye contact Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

**Inhalation** Corrosive to respiratory system.

**Ingestion** Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

Can burn mouth, throat, and stomach.

# Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Acetic acid	3310 mg/kg (Rat)	1060 mg/kg (Rabbit)	11.4 mg/L (Rat)4 h
3-Pyrazolidinone, 1-phenyl-	200 mg/kg (Rat)		
Chemical Name		Other applicable information	on
Chemical Name Acetic acid  3-Pyrazolidinone, 1-phenyl-		Severe eye irritation Severe skin irritation Acute overexposure to extre respiratory irritants has been asthma-like reactive airways individuals. Extremely high ai generated during normal con following a spill. The potentia concentrations in a spill situa such as the concentration of	mely high airborne concentrations of associated with development of an syndrome (RADS) in susceptible irborne concentrations are not ditions of use but may occur I to generate extremely high airborne tion depends upon physical factors the solution, the volume of the spill, he size of the room where the spill ate in the room.
			estion studies in animals, this esticular, and adverse reproductive

**Aggravated Medical Conditions** 

Preexisting eye disorders, Skin disorders, Respiratory disorders, Blood disorders, Overexposure may cause female and male reproductive disorder(s).

# Subchronic toxicity

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no data available

Chronic toxicity

**Chronic toxicity**Avoid repeated exposure. Possible risks of irreversible effects. Chronic exposure to

corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial

irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Contains a known or suspected

reproductive toxin.

Sensitization No information available.

Neurological effects No information available.

Target Organ Effects Respiratory system, Eyes, Skin, Teeth, Blood, Testes.

CMR Effects

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

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

# 12. ECOLOGICAL INFORMATION

# Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 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
Acetic acid		LC50= 79 mg/L Pimephales promelas 96 h LC50= 75 mg/L Lepomis macrochirus 96 h	EC50 = 47 mg/L 24 h (Daphnia magna) EC50 = 65 mg/L 48 h (Daphnia magna)

# Persistence and degradability

Expected to be readily biodegradable

# **Bioaccumulative potential**

No information available

Chemical Name	log Pow
Acetic acid	-0.31

#### **Mobility in soil**

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.

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# 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

UN/ID No UN2789

Proper Shipping Name Acetic acid, solution

Hazard class 8
Packing Group II
Classification Code CF1
ADR/RID-Labels 8+3
ADR Hazard Id (Kemmler 83

Number)

Limited Quantity LQ22

#### IMDG/IMO

UN/ID No UN2789

Proper Shipping Name Acetic acid, solution

Hazard class 8
Subsidiary hazard class 3
Packing Group II
Marine Pollutant NP
EmS No. F-E, S-C
Limited quantity DFDA 1 L

ICAO/IATA

Transport forbidden

UN/ID No UN2789

Proper Shipping Name Acetic acid solution

Hazard class 8
Subsidiary hazard class 3
Packing Group II
Limited quantity DFDA 0.5 L

### ADN

UN/ID No UN2789

Proper Shipping Name Acetic acid, solution

Hazard class 8
Packing Group II
Classification Code CF1
Hazard Labels 3
Limited quantity DFDA LQ22
Ventilation VE01

# TDG

UN/ID No UN2789

Proper Shipping Name Acetic acid solution

Hazard class 8
Subsidiary Class 3
Packing Group II

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

# 15. REGULATORY INFORMATION

# International Inventories

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

**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 Serious risk, Grade 3

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>

·	Argentina - Chemical Precursors and Regulated Essential Chemicals
Acetic acid 64-19-7 ( 80-90 )	Present

### 16. OTHER INFORMATION

Revision Date 2013-11-19

Revision Note (M)SDS sections updated

#### **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**