Carestream

SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

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

Other means of identification

Product code: 1101617B
UN/ID No UN2789
Synonyms PCD 6313

Recommended use of the chemical and restrictions on use

Product Use: Restricted to professional users, Photographic chemical.
Uses advised against No information available

Details of the supplier of the safety data sheet

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

Emergency telephone number

CHEMTREC: CHEMTREC Brazil: +(55)-2139581449

Section 2: HAZARDS IDENTIFICATION

Most Important Hazards

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3
Flammable liquids	Category 3

Label elements

Signal word Danger

hazard statements
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H373 - May cause damage to organs through prolonged or repeated exposure
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
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P314 - Get medical advice/attention if you feel unwell
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
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 victim to fresh air and keep at rest in a position comfortable for breathing
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P310 - Immediately call a POISON CENTER or doctor/physician
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
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 Information

Other hazards — None known.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Acetic acid 64-19-7	64-19-7	80-90
3-Pyrazolidinone, 1-phenyl- 92-43-3	92-43-3	10-15

Section 4: FIRST AID MEASURES

First Aid Measures

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

Inhalation — Immediate medical attention is required. Move to fresh air. Artificial respiration and/or oxygen may be necessary.

Skin contact Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction.

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.

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

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

Most important symptoms and effects, both acute and delayed

Main Symptoms Corrosive. Burning. Coughing and/ or wheezing. Difficulty breathing, respiratory distress. May cause an allergic skin reaction.

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.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Carbon dioxide (CO_2). Alcohol-resistant foam. Dry chemical. Water spray.

Unsuitable Extinguishing Media No information available.

Specific extinguishing methods

Evacuate area and fight fire from a safe distance.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

Specific hazards arising from the chemical

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.

Hazardous Combustion Products Carbon oxides, Hydrocarbons, Aldehydes, Nitrogen oxides (NOx).

Explosive properties

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Yes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions 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.

Other information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

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 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.

Section 7: 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.

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. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

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.

Incompatible products Amines. Metals. Bases. Strong oxidizing agents.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	Brazil	Chile	Argentina	Venezuela
Acetic acid	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	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.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Impervious gloves. Impervious clothing.

Hand Protection 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.

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid		
Appearance	Clear Orange Liquid	**Odor**	Strong Acetic
Color	clear orange	**Odor Threshold**	No information available

Property	**Values**	**Remarks/ • Method**
ph	1	No information available
Melting point/range:		No information available
Boiling point/boiling range	> 100 °C	No information available
Flash Point	38.0 °C	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		
upper flammability limit		
lower flammability limit		
Vapor pressure	24	No information available
Vapor density	0.6	No information available
Specific Gravity		No information available
Water Solubility VALUE	completely soluble	No information available
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		
Explosive properties	No information available	
Oxidizing Properties	No information available	
Softening point	No information available	
VOC Content	No information available	
Density VALUE	No information available	
Bulk Density VALUE	No information available	

Section 10: STABILITY AND REACTIVITY

Reactivity
None under normal use conditions.
Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions
None under normal processing.

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

Incompatible Materials
Amines. Metals. Bases. Strong oxidizing agents.

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

Section 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
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 Causes burns. Corrosive to the eyes and may cause severe damage including blindness.

Skin contact Causes burns. Harmful in contact with skin.

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

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)
3-Pyrazolidinone, 1-phenyl-	475 mg/kg (Rat)	>1,000 mg/kg	-

Information on toxicological effects

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. Allergic skin reactions including rash, dermatitis, irritation, and itching.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available.

Corrosivity Causes burns.

Sensitization May cause sensitization by skin contact.

mutagenic effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive toxicity Contains ingredients that are suspected reproductive hazards. However, based on available data the product should not be classified for reproductive effects.

Developmental Toxicity No information available.

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.

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

Neurological effects No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

0% of the mixture consists of ingredient(s) of unknown toxicity

Oral LD50 2000 mg/kg (ATE)

Dermal LD50 1,200.00 mg/kg (ATE)

Inhalation

Mist 12.90 mg/l (ATE)

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Acetic acid		*75: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Pimephales promelas mg/L LC50 static*	*65: 48 h Daphnia magna mg/L EC50 Static*
3-Pyrazolidinone, 1-phenyl-		*10-100 mg/l*	*10-100 mg/l*

1H-Indazole, 5-nitro-	*>100 mg/l*	*>100 mg/l*	*>100 mg/l*

Persistence and degradability Expected to be readily biodegradable.

Bioaccumulation: No information available.

Mobility No information available.

Chemical Name	log Pow
Acetic acid	-0.31

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

Section 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.

IMDG/IMO

- **Proper Shipping Name** Acetic acid, solution
- **Hazard class** 8
- **Subsidiary hazard class** 3
- **UN/ID No** UN2789
- **Packing Group** II
- **EmS No.** F-E, S-C
- **Description** UN2789, Acetic acid solution, 8 (3), PG II, (38°C c.c.), Limited Quantity

ICAO

- **UN/ID No** UN2789
- **Proper Shipping Name** Acetic acid solution
- **Hazard class** 8
- **Subsidiary hazard class** 3
- **Packing Group** II
- **Description** UN2789, Acetic acid solution, 8 (3), PG II

ICAO/IATA Transport forbidden

- **UN/ID No** UN2789
- **Proper Shipping Name** Acetic acid solution
- **Hazard class** 8
- **Subsidiary hazard class** 3
- **Packing Group** II
- **Description** UN2789, Acetic acid solution, 8 (3), PG II

DOT

- **Proper Shipping Name** Acetic acid solution
- **Hazard class** 8
- **Subsidiary Class** 3

UN/ID No	UN2789
Packing Group	II
Special Provisions	A3, A6, A7, A10, B2, IB2, T7, TP2
Description	UN2789 Acetic acid solution, 8 (3), PG II, Limited Quantity

TDG

Proper Shipping Name	Acetic acid solution
Hazard class	8
Subsidiary Class	3
UN/ID No	UN2789
Packing Group	II
Description	UN2789, Acetic acid solution, 8 (3), PG II, Limited Quantity

MEX

Proper Shipping Name	Acetic acid solution
Hazard class	8
Subsidiary Class	3
UN/ID No	UN2789
Packing Group	II
Description	UN2789, Acetic acid solution, 8 (3), PG II

RID

Proper Shipping Name	Acetic acid solution
Hazard class	8
UN/ID No	UN2789
Packing Group	II
Classification Code	CF1
Description	UN2789, Acetic acid solution, 8 (3), PG II
ADR/RID-Labels	8 + 3

ADR/RID

Proper Shipping Name	Acetic acid, solution
Hazard class	8
UN/ID No	UN2789
Packing Group	II
Classification Code	CF1
Description	UN2789, Acetic acid solution, 8 (3), PG II, (D/E), Limited Quantity
ADR/RID-Labels	8 + 3

ADN

Proper Shipping Name	Acetic acid, solution
Hazard class	8
UN/ID No	UN2789
Packing Group	II
Classification Code	CF1
Description	UN2789, Acetic acid solution, 8 (3), PG II
Hazard Labels	3
Limited quantity DFDA	LQ22
Ventilation	VE01

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

Section 15: REGULATORY INFORMATION

International Inventories

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

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
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

Section 16: OTHER INFORMATION

Revision Date	2014-03-28
Revision Note	Update of SDS.

This material safety data sheet has been prepared according to Brazilian legislation and ABNT NBR 14725:2009

Disclaimer
The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text