

SAFETY DATA SHEET

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

Identification of the substance or mixture

Product name: RP X-OMAT ICM D-1 Developer and Replenisher, Part B

KODAK X-OMAT ICM D-1 Developer Replenisher, Part B

Product code: 6610174B
Pure substance/mixture Mixture

Use of the Substance/Mixture

Product Use: Photographic chemical, Restricted to professional users.

Company/Undertaking Identification

Manufacturer: Kodak (Wuxi) Company Ltd,

No. 18, Changjiang Road, Wuxi, JiangSu Province,

China 214028

For further information, please contact:

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

Emergency telephone

For Chemical Emergency Information, call: 0510-85252120

HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Reproductive toxicity	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Acute aquatic toxicity	Category 3
Chronic aquatic toxicity	Category 3
Corrosive to Metals	Category 1

GHS Label elements, including precautionary statements



DANGER

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Hazard statements

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H361 - Suspected of damaging fertility or the unborn child

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

H290 - May be corrosive to metals

Precautionary Statements

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P234 - Keep only in original container

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

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

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

P390 - Absorb spillage to prevent material damage

P404 - Store in a closed container

P405 - Store locked up

P406 - Store in corrosive resistant container with a resistant inliner

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

Other hazards which do not result in classification

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %
Acetic acid	60-70
Water	20 - 25
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.

Eye contact Immediate medical attention is required. Rinse thoroughly with plenty of water, also under

the eyelids. Keep eye wide open while rinsing. If easy to do, remove contact lens, if worn.

Skin contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

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

oxygen may be necessary.

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

Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms/effects, acute and delayed

Skin contact Causes burns.

Product code: 6610174B

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

Inhalation May be harmful if inhaled. Irritating to mucous membranes. Irritating to respiratory system.

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

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.

5. FIRE-FIGHTING MEASURES

Suitable 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.

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.

Special protective actions for fire-fighters

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

Other information

Other information None known.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

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Advice for emergency responders

For personal protection see section 8

Environmental precautions

Do not flush into surface water or sanitary sewer system. Try to prevent the material from entering drains or water courses. Do not allow material to contaminate ground water system.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Dike 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.

Other information

Refer to protective measures listed in Sections 7 and 8.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. When using, do not eat, drink or smoke. Wash thoroughly after handling. Keep container tightly closed.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

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

temperatures between 5°C and 30°C.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Chemical Name	Taiwan	China	ACGIH TLV	European Union
Acetic acid	STEL 15 ppm	TWA 10 mg/m ³	STEL 15 ppm	TWA 10 ppm
	STEL 37.5 mg/m ³	STEL 20 mg/m ³	TWA: 10 ppm	TWA 25 mg/m ³

Advisory OEL

1-phenyl-3-pyrazolidone (CAS 92-43-3): TWA 0.2 mg/m³

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. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. 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 In case of insufficient ventilation wear suitable respiratory equipment. 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. Boots. Chemical resistant apron.

Hand Protection Impervious gloves

Hygiene measures When using, do not eat, drink or smoke. Remove and wash contaminated clothing before

re-use. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid Odor Pungent ph 0.6 Color orange

Flash point: > 93.4 °C Autoignition temperature: No information available

Boiling point/boiling range No information available

Vapor Pressure No information available **Vapor density** No information available

Density 1.083 g/cm3

Water Solubility completely soluble

Melting point/range: No information available Specific Gravity No information available 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

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

Materials to Avoid

Strong oxidizing agents. Bases. Amines. Metals.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity Product Information.

Skin contact Causes burns.

Eye contact
Inhalation
Causes burns. Corrosive to the eyes and may cause severe damage including blindness.
May be harmful if inhaled. Irritating to mucous membranes. Irritating to respiratory system.
Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts.

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

 Oral
 1,158.00 mg/kg

 Dermal
 1,397.00 mg/kg

Inhalation

Gas No information available

Mist 17.30 mg/L

Vapor No information available

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
Water	90,000 mg/kg (Rat)		
3-Pyrazolidinone, 1-phenyl-	200 mg/kg (Rat)		
Chemical Name		Other applicable information	on
Acetic acid		respiratory irritants has been asthma-like reactive airways individuals. Extremely high a generated during normal confollowing a spill. The potentia concentrations in a spill situa such as the concentration of	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

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3-Pyrazolidinone, 1-phenyl
Mild skin irritation

Mild skin irritation

Repeated exposure

Mild eye irritation

Did not cause sensitization on laboratory animals. guinea pig

Based on repeated-dose ingestion studies in animals, this chemical may cause blood, testicular, and adverse reproductive effects.

Aggravated Medical Conditions

Preexisting eye disorders, Skin disorders, Respiratory disorders.

Subchronic toxicity

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 May cause sensitization of susceptible persons.

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 toxicityContains 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	EC50 = 47 mg/L 24 h (Daphnia
		promelas 96 h LC50= 75 mg/L	magna) EC50 = 65 mg/L 48 h
		Lepomis macrochirus 96 h	(Daphnia magna)

Persistence and degradability

Degradation						
Type:	Method	Compartment	Sampling time	Units	Result	Units

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Chemical Oxygen Demand (COD)			~ 1162	g/l
Biochemical Oxygen Demand (BOD)			~ 644	g/l

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

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 UN2790

Proper Shipping Name Acetic acid solution

Hazard class 8
Packing Group II
Classification Code C3
ADR/RID-Labels 8
ADR Hazard Id (Kemmler 80

Number)

Limited Quantity LQ22

IMDG/IMO

UN/ID No UN2790

Proper Shipping Name Acetic acid, solution

Hazard class 8
Packing Group II
Marine Pollutant NP
EmS No. F-A, S-B
Limited quantity DFDA 1 L

ICAO/IATA

UN/ID No UN2790

Proper Shipping Name Acetic acid solution

Hazard class 8
Packing Group II
ERG Code 8L
Limited quantity DFDA 0.5 L

ADN

UN/ID No UN2790

Proper Shipping Name Acetic acid solution

Hazard class 8
Packing Group II
Classification Code C3
Limited quantity DFDA LQ22

TDG

UN/ID No UN2790

Proper Shipping Name Acetic acid solution

Hazard class 8
Packing Group

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

15. REGULATORY INFORMATION

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International Inventories

EINECS/ELINCS Complies Complies **TSCA DSL/NDSL** Complies **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

16. OTHER INFORMATION

Revision Date 2013-11-15

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