Revision Date: 07/21/2008 000000024522/Version: 2.0 Print Date: 10/29/2008

Page: 1/8

1. Identification of the substance/preparation and of the company/undertaking

Product name: KODAK RP X-OMAT Developer Replenisher, Part B

Product code: 1249259, Part B

Supplier: Carestream Health, Inc., 150 Verona Street, Rochester, New York, 14608

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

Synonyms: None.

Product Use: photographic processing chemical (developer/activator), For industrial use only.

2. Hazards identification

CONTAINS: Acetic acid (64-19-7), 1-phenyl-3-pyrazolidinone (92-43-3)

DANGER!

CAUSES SEVERE SKIN AND EYE BURNS

DUST, MIST OR VAPOUR EXTREMELY IRRITATING TO THE EYES AND RESPIRATORY TRACT MAY CAUSE ALLERGIC SKIN REACTION

BASED ON REPEATED-DOSE INGESTION STUDIES IN ANIMALS, A MINOR COMPONENT OF THIS PRODUCT MAY CAUSE BLOOD, TESTICULAR, AND ADVERSE REPRODUCTIVE EFFECTS

HMIS III Hazard Ratings: Health - 3*, Flammability - 1, Physical Hazard - 0

NFPA Hazard Ratings: Health - 3, Flammability - 1, Instability - 0

NOTE: HMIS III and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (*), in the HMIS III health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

| Weight % | Components (CAS-No.) | |
|----------|-------------------------------------|--|
| 65 - 70 | Acetic acid (64-19-7) | |
| 10 - 15 | 1-phenyl-3-pyrazolidinone (92-43-3) | |

4. First aid measures

Inhalation: If inhaled, remove to fresh air. Get medical attention.

Eyes: Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens.

Revision Date: 07/21/2008 000000024522/Version: 2.0 Print Date: 10/29/2008

Page: 2/8

Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control centre immediately. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

5. Fire-fighting measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides (NOx), (see also Hazardous Decomposition Products section).

Unusual Fire and Explosion Hazards: Material contains a combustible solvent that may accumulate in the container headspace.

6. Accidental release measures

Methods for cleaning up: Remove all sources of ignition. Absorb spill with inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination. Prevent runoff from entering drains, sewers, or streams.

7. Handling and storage

Personal precautions: Do not breathe mist or vapour at concentrations greater than the exposure limits. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation. Keep container tightly closed. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep away from heat and sources of ignition. Use only with adequate ventilation. Keep from contact with oxidizing materials.

Storage: Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

| Chemical Name | Regulatory List | Value Type | Value |
|----------------------|-----------------|---------------------------|--------|
| Acetic acid | ACGIH | time weighted average | 10 ppm |
| | ACGIH | Short term exposure limit | 15 ppm |

Revision Date: 07/21/2008 000000024522/Version: 2.0 Print Date: 10/29/2008

Page: 3/8

OSHA Z1 time weighted average 10 ppm 25 mg/m3
OSHA Z1A time weighted average 10 ppm 25 mg/m3
EK HPG Time Weighted Average (TWA): 0.2 mg/m3

1-phenyl-3pyrazolidinone

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

Respiratory protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: organic vapour/N95. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

Eye protection: If a full-face respirator is not worn, wear vapour-tight chemical goggle and a face shield.

Skin and body protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Recommended Decontamination Facilities: Safety shower, eye wash, washing facilities as appropriate to condition of use.

9. Physical and Chemical Properties

Physical form: liquid

Colour: orange

Odour: pungent

Specific gravity: no data available

Vapour pressure: no data available

Vapour density: no data available

Volatile fraction by weight: 85 - 90 %

Boiling point/boiling range: no data available

Water solubility: complete

pH: < 2

Flash point: does not flash

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Strong oxidizing agents, Amines, Bases, Metals.

Revision Date: 07/21/2008 000000024522/Version: 2.0 Print Date: 10/29/2008

Page: 4/8

Hazardous decomposition products: nitrogen oxides (NOx).

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

General advice:

Contains: Acetic acid. 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 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.

Contains: 1-phenyl-3-pyrazolidinone. Based on repeated-dose ingestion studies in animals, this chemical may cause blood, testicular, and adverse reproductive effects.

Inhalation: Airborne dust/mist/vapor extremely irritating.

Eyes: Causes severe eye burns. Airborne dust/mist/vapor extremely irritating.

Skin: Causes severe skin burns. May cause allergic skin reaction.

Ingestion: Expected to be a low ingestion hazard.

Data for Acetic acid (CAS 64-19-7):

Acute Toxicity Data:

Oral LD50 (rat): 3,310 - 3,530 mg/kg

Oral LD50: 4,960 mg/kg

Inhalation LC50: 5620 ppm / 1.00 hr

Dermal LD50: 1,060 mg/kg
Skin irritation: severe
Eye irritation: severe

Data for 1-phenyl-3-pyrazolidinone (CAS 92-43-3):

Acute Toxicity Data:

Oral LD50 (male rat): 476 mg/kgOral LD50 (female rat): 336 mg/kg

Dermal LD50 (guinea pig): > 1,000 mg/kg

Skin irritation: slight

Skin irritation: slight (repeated skin application)

Skin Sensitization (guinea pig): negative

 Skin Sensitization (guinea pig): negative

 Skin Sensitization (guinea pig): negative

Eye irritation (unwashed eyes): slight

Revision Date: 07/21/2008 000000024522/Version: 2.0 Print Date: 10/29/2008

Page: 5/8

Definitions for the following section(s): LOEL =lowest-observed-effect level, LOAEL = lowest-observed-adverse-effect, NOAEL = no observed-adverse-effect level, NOEL =no-observed-effect level.

Repeated dose toxicity:

- Oral (90 days, rat): LOEL (Lowest observable effect level); 0.32 % in diet (target organ effects: testes)
- Oral (90 days, rat): LOEL (Lowest observable effect level); 0.08 % in diet (reduced feed intake)
- Oral (90 days, rat): LOEL (Lowest observable effect level); 0.02 % in diet (target organ
 effects: red blood cell)
- Feeding study (90 days, male and female rat): NOEL; (Not established, target organ effects: red blood cell, target organ effects: testes)
- Feeding study (90 days, male and female rat): LOEL (Lowest observable effect level); (Not established, target organ effects: red blood cell, target organ effects: testes)

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.

Potential Toxicity:

Toxicity to fish (LC50): 10 - 100 mg/l

Toxicity to daphnia (EC50): 10 - 100 mg/l

Toxicity to algae (IC50): 10 - 100 mg/l

Toxicity to other organisms (EC50): > 100 mg/l

Persistence and degradability: Expected to be biodegradable

Chemical Oxygen Demand (COD): ca. 1162 g/l

Biochemical Oxygen Demand (BOD): ca. 644 g/l

13. Disposal considerations

Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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.

Revision Date: 07/21/2008 000000024522/Version: 2.0 Print Date: 10/29/2008

Page: 6/8

IATA: UN Number: UN3265

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.

Class: 8 Packaging group: II

IMDG: UN Number: UN3265

Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(Acetic acid)

Class: 8 Packaging group: II

US DOT: UN Number: UN3265

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.

Class: 8 Packaging group: II

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

15. Regulatory information

Notification status

| Regulatory List | Notification status | Other information | Not listed |
|-----------------|----------------------|--|------------|
| EINECS | y (positive listing) | - | |
| TSCA | y (positive listing) | On TSCA Inventory | |
| AICS | y (positive listing) | - | |
| DSL | y (positive listing) | All components of this product are on the Canadian DSL list. | |
| ENCS (JP) | y (positive listing) | - | |
| KECI (KR) | y (positive listing) | - | |
| PICCS (PH) | y (positive listing) | - | |
| INV (CN) | y (positive listing) | - | |

A N (Negative listing) indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Carestream Health.

Other regulations

American Conference of Governmental Industrial Hygienists

(ACGIH):

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

International Agency for Research on Cancer (IARC):

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

U.S. National Toxicology Program (NTP):

No component of this product present at

Revision Date: 07/21/2008 000000024522/Version: 2.0 Print Date: 10/29/2008

Page: 7/8

levels greater than or equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

U.S. Occupational Safety and Health Administration (OSHA):

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

California Prop. 65:

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323):

Acetic acid, Water, 1-phenyl-3pyrazolidinone

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000):

Acetic acid

none

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5):

Acetic acid, Water, 1-phenyl-3pyrazolidinone

16. Other information

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

CONTAINS: Acetic acid (64-19-7), 1-phenyl-3-pyrazolidinone (92-43-3)

DANGER!

CAUSES SEVERE SKIN AND EYE BURNS

DUST, MIST OR VAPOUR EXTREMELY IRRITATING TO THE EYES AND RESPIRATORY TRACT

MAY CAUSE ALLERGIC SKIN REACTION

BASED ON REPEATED-DOSE INGESTION STUDIES IN ANIMALS, A MINOR COMPONENT OF THIS PRODUCT MAY CAUSE BLOOD, TESTICULAR, AND ADVERSE REPRODUCTIVE EFFECTS

Keep away from heat and sources of ignition. Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing.

Keep container tightly closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Revision Date: 07/21/2008 000000024522/Version: 2.0 Print Date: 10/29/2008

Page: 8/8

FIRST AID: If inhaled, remove to fresh air. Get medical attention. Immediately flush the contaminated eye(s) with water for at least 60 minutes, while holding the eyelid(s) open. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. Contact a physician or poison control center immediately. Continue flushing the eye(s) until the physician advises to stop. If necessary, continue flushing during transport to an emergency care facility. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control centre immediately. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. If swallowed, DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

Keep out of reach of children.

Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

IN CASE OF FIRE: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use water spray to cool unopened containers.

IN CASE OF SPILL: Remove all sources of ignition. Absorb spill with inert material, then place in a chemical waste container. Clean surface thoroughly to remove residual contamination. Prevent runoff from entering drains, sewers, or streams.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.