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

**Product name:** KODAK T-MAX RS Developer and Replenisher, Part A

**Product code:** 8446163 - Part A

**Supplier:** EASTMAN KODAK COMPANY, 343 State Street, Rochester, New York, 14650

For Emergency Health, Safety & Environmental Information, call (585) 722-5151 (USA)

For other information or to request an MSDS, call (800) 242-2424.

**Synonyms:** PCD 5492

**Product Use:** photographic processing chemical, For industrial use only.

2. Hazards identification

**CONTAINS:** Diethanolamine-sulphur dioxide complex (63149-47-3), Hydroquinone (123-31-9), Sodium bisulphite (7631-90-5), 4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidinone (13047-13-7)

**WARNING!**
HEAT SENSITIVE - CAN DECOMPOSE IF HEATED
HARMFUL IF SWALLOWED
CAUSES EYE IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION
MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA
MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA

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

NOTE: NFPA 704 (2007) hazard indexes involves data review and interpretation that may vary among companies. It is intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Weight %</th>
<th>Components - (CAS-No.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 - 55</td>
<td>Diethanolamine-sulphur dioxide complex (63149-47-3)</td>
</tr>
<tr>
<td>40 - 45</td>
<td>Water (7732-18-5)</td>
</tr>
<tr>
<td>1 - 5</td>
<td>Hydroquinone (123-31-9)</td>
</tr>
<tr>
<td>1 - 5</td>
<td>Sodium bisulphite (7631-90-5)</td>
</tr>
<tr>
<td>&lt; 1</td>
<td>Pentetic acid, pentasodium salt (140-01-2)</td>
</tr>
<tr>
<td>&lt; 1</td>
<td>4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidinone (13047-13-7)</td>
</tr>
</tbody>
</table>

4. First aid measures

**Inhalation:** If symptomatic, move to fresh air. Get medical attention if symptoms occur.
**Eyes:** Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

**Ingestion:** If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 5. Fire-fighting measures

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products. Use water spray to keep fire-exposed containers cool.

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

**Unusual Fire and Explosion Hazards:** Elevated temperature can cause decomposition.

### 6. Accidental release measures

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

### 7. Handling and storage

**Personal precautions:** Avoid breathing mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Keep away from heat and sources of ignition. Keep from contact with oxidizing materials.

**Storage:** Store in cool place. Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

### 8. Exposure controls / personal protection

**Occupational exposure controls**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Regulatory List</th>
<th>Value Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroquinone</td>
<td>ACGIH</td>
<td>time weighted average</td>
<td>2 mg/m³</td>
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<tr>
<td></td>
<td>OSHA Z1</td>
<td>Permissible exposure limit</td>
<td>2 mg/m³</td>
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<tr>
<td>Sodium bisulphite</td>
<td>ACGIH</td>
<td>time weighted average</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>
Ventilation: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

Respiratory protection: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. A respirator should be worn if hazardous decomposition products are likely to be or have been released. Respirator type: Acid gas. 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: Wear safety glasses with side shields (or goggles).

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

9. Physical and chemical properties

Physical form: liquid

Colour: tan

Odour: amine

Specific gravity: 1.21

Vapour pressure (at 20.0 °C (68.0 °F)): 24 mbar (18.0 mm Hg)

Vapour density: 0.6

Volatile fraction by weight: 40 - 45%

Boiling point/boiling range: > 100.0 °C (> 212.0 °F)

Water solubility: complete

pH: 8.9

Flash point: does not flash

10. Stability and reactivity

Stability: Stable under normal conditions. Safe handling temperatures are dependent on specific conditions of use and are typically substantially below the onset temperature. Consult your technical safety experts.

Incompatibility: Strong oxidizing agents, Acids. Contact with strong acids liberates sulphur dioxide.

Hazardous decomposition products: Sulphur oxides, nitrogen oxides (NOx).

Hazardous Polymerization: Hazardous polymerisation does not occur.
11. Toxicological information

Effects of Exposure

General advice:

Contains: Hydroquinone. There is insufficient evidence for classifying hydroquinone as a suspected carcinogenic or mutagenic substance in humans. No increases in cancer rates were observed in an epidemiology study which looked at mortality among more than 800 persons employed primarily in the manufacture of hydroquinone. Carcinogenicity studies in animals were inconclusive. Rats and mice were given hydroquinone by stomach tube or at high concentrations in the diet. Responses were not consistent across route of exposure, species or sex. The International Agency for Research on Cancer (IARC) has classified hydroquinone in Group 3, i.e., "not classifiable" as a carcinogen. Hydroquinone is generally negative in bacterial mutagenicity tests; there is evidence for the clastogenicity (chromosome breakage) of hydroquinone in vivo and in vitro. The relevance of chromosomal effects in test animals in predicting human risk is unclear.

Contains: Diethanolamine-sulphur dioxide complex. May cause liver damage based on animal data. May cause kidney damage based on animal data.

Contains: 4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidinone. May cause adverse reproductive effects such as infertility based on animal data. Based on repeated-dose ingestion studies in animals, this chemical may cause blood, testicular, and adverse reproductive effects.

Inhalation: Expected to be a low hazard for recommended handling. In contact with strong acids or if heated, sulphites may liberate sulphur dioxide gas. Sulphur dioxide gas is irritating to the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficult breathing.

Eyes: Causes eye irritation. Airborne dust/mist/vapor irritating.

Skin: May cause allergic skin reaction based on human experience. May cause skin depigmentation. Prolonged or repeated contact with aqueous solutions may cause irritation.

Ingestion: Harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.

Data for Diethanolamine-sulphur dioxide complex (CAS 63149-47-3):

Acute Toxicity Data:

- Oral LD50 (male rat): 1,903 mg/kg
- Oral LD50 (female rat): 1,131 mg/kg
- Dermal LD50: >20 ml/kg
- Dermal LD50 (guinea pig): >20 ml/kg
- Skin irritation: slight
- Skin irritation: no exacerbation (repeated skin application)
- Skin Sensitization: none
- Skin Sensitization (guinea pig): none
- Skin Sensitization (guinea pig): negative
- Eye irritation: slight
• Eye irritation (washed eyes): slight
• Eye irritation (unwashed eyes): slight

Data for Hydroquinone (CAS 123-31-9):

Acute Toxicity Data:
• Oral LD50 (rat): 400 mg/kg
• Oral LD50 (male rat): 400 mg/kg
• Oral LD50 (male mouse): 100 - 200 mg/kg
• Dermal LD50 (guinea pig): > 1,000 mg/kg
• Dermal absorption rate: 1.1 micrograms (s) / cm 2 / hour
• Skin irritation: slight
• Skin Sensitization (guinea pig): positive
• Eye irritation: moderate

Mutagenicity/Genotoxicity Data:
• Salmonella typhimurium assay (Ames test): negative (in presence and absence of activation)
• Chromosomal aberration assay: negative (in absence of activation)
• Chromosomal aberration assay: positive (in presence of activation)
• Sister chromatid exchange (SCE) assay: positive (in presence and absence of activation)

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:
• Dermal (17-day, rat): NOEL; 3800 mg/kg/day
• Dermal (17-day): LOEL (Lowest observable effect level); 4800 mg/kg/day

Developmental Toxicity Data:
• Oral (female rabbit): NOEL for developmental toxicity; 25mg/kg/day

Data for Sodium bisulphite (CAS 7631-90-5):

Acute Toxicity Data:
• Oral LD50 (rat): > 1,600 mg/kg

Data for Pentetic acid, pentasodium salt (CAS 140-01-2):

Acute Toxicity Data:
• Oral LD50 (male rat): 3,200 mg/kg
• Oral LD50 (female rat): 2,263 mg/kg
• Skin Sensitization: none
• Skin Sensitization (guinea pig):

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 (11 days, male rat): NOEL; 100 mg/kg/day

Data for 4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidinone (CAS 13047-13-7):

Acute Toxicity Data:
• Oral LD50 (rat): 566 mg/kg
• Oral LD50: 283 mg/kg
• Dermal LD50: > 1,000 mg/kg
• Skin irritation: slight
• Skin irritation: slight exacerbation (repeated skin application)
• Skin Sensitization: slight
• Eye irritation: strong irritation
• Eye irritation (unwashed eyes): strong
• Eye irritation (washed eyes): slight to moderate

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 (12-day, rat): NOEL; 88 mg/kg/day
• Oral (12-day, rat): LOEL (Lowest observable effect level); 440 mg/kg/day (target organ effects: blood, target organ effects: testes)
• Oral (28-day, rat): NOEL; 10 mg/kg/day
• Oral (28-day, rat): LOEL (Lowest observable effect level); 40 mg/kg/day (target organ effects: blood, target organ effects: testes)

12. Ecological information

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

Potential Toxicity:

Toxicity to fish (LC50): 1 - 10 mg/l
Toxicity to daphnia (EC50): 1 - 10 mg/l
Toxicity to algae (IC50): 10 - 100 mg/l
Toxicity to other organisms (EC50): > 100 mg/l (sludge)

Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): ca. 738 g/l
Biochemical Oxygen Demand (BOD): ca. 624 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

Not regulated for all modes of transportation.

For more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

<table>
<thead>
<tr>
<th>Regulatory List</th>
<th>Notification status</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS</td>
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</tr>
<tr>
<td>TSCA</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>AICS</td>
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</tr>
<tr>
<td>DSL</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>ENCS (JP)</td>
<td>n (Negative listing)</td>
</tr>
<tr>
<td>KECI (KR)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>PICCS (PH)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>INV (CN)</td>
<td>y (positive listing)</td>
</tr>
</tbody>
</table>

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 Kodak.

Other regulations

American Conference of Governmental Industrial Hygienists (ACGIH):
Hydroquinone: Group A3 (Confirmed animal carcinogen with unknown relevance to humans.)

International Agency for Research on Cancer (IARC):
Hydroquinone: 3 (Classification not possible from current data.), Sodium bisulphite: 3 (Classification not possible from current data.)

U.S. National Toxicology Program (NTP):
No component of this product present at 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.
Material Safety Data Sheet

California Prop. 65: none

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000): No components are subject to the Massachusetts Right to Know Act.

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: Hydroquinone

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. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5): Diethanolamine-sulphur dioxide complex, Water, Hydroquinone, Sodium bisulphite

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: Diethanolamine-sulphur dioxide complex (63149-47-3), Hydroquinone (123-31-9), Sodium bisulphite (7631-90-5), 4-hydroxymethyl-4-methyl-1-phenyl-3-pyrazolidinone (13047-13-7)

WARNING!
HEAT SENSITIVE - CAN DECOMPOSE IF HEATED
HARMFUL IF SWALLOWED
CAUSES EYE IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION
MAY CAUSE LIVER DAMAGE BASED ON ANIMAL DATA
MAY CAUSE KIDNEY DAMAGE BASED ON ANIMAL DATA

Store in cool place.
Avoid breathing mist or vapour at concentrations greater than the exposure limits.
Avoid contact with eyes, skin, and clothing.
Use only with adequate ventilation.
Wash thoroughly after handling.

FIRST AID: If symptomatic, move to fresh air. Get medical attention if symptoms occur. Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention 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.

**IN CASE OF SPILL:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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.

R-1, S-2, F-1, C-1HT
1. Identification of the substance/preparation and of the company/undertaking

**Product name:** KODAK T-MAX RS Developer and Replenisher, Part B  
**Product code:** 8446163 - Part B  
**Supplier:** EASTMAN KODAK COMPANY, 343 State Street, Rochester, New York, 14650

For Emergency Health, Safety & Environmental Information, call (585) 722-5151 (USA)  
For other information or to request an MSDS, call (800) 242-2424.

**Synonyms:** None.

**Product Use:** photographic processing chemical, For industrial use only.

2. Hazards identification

**CONTAINS:** Diethylene glycol (111-46-6), Acetic acid (64-19-7), 1,4-diphenyl-3-(phenylammonio)-1H-1,2,4-triazolium (2218-94-2)

**WARNING!**
MAY FORM EXPLOSIVE PEROXIDES  
HARMFUL IF SWALLOWED  
CAUSES EYE IRRITATION  
MAY CAUSE ALLERGIC SKIN REACTION  
CAN CAUSE KIDNEY DAMAGE AND CNS EFFECTS FOLLOWING INGESTION

**NFPA Hazard Ratings:** Health - 2, Flammability - 1, Instability - 1

**NOTE:** NFPA 704 (2007) hazard indexes involves data review and interpretation that may vary among companies. It is intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Weight %</th>
<th>Components - (CAS-No.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 - 99</td>
<td>Diethylene glycol (111-46-6)</td>
</tr>
<tr>
<td>1 - 5</td>
<td>Acetic acid (64-19-7)</td>
</tr>
<tr>
<td>0.1 - &lt; 1</td>
<td>1,4-diphenyl-3-(phenylammonio)-1H-1,2,4-triazolium (2218-94-2)</td>
</tr>
</tbody>
</table>

4. First aid measures

**Inhalation:** If symptomatic, move to fresh air. Get medical attention if symptoms occur.

**Eyes:** Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire-fighting measures

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

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides (NOx)

Unusual Fire and Explosion Hazards: Forms peroxides of unknown stability.

6. Accidental release measures

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Personal precautions: Avoid breathing mist or vapour at concentrations greater than the exposure limits. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials. If peroxide formation is suspected, do not open or move container. Minimize exposure to air. After opening, purge container with nitrogen before reclosing. Periodically test for peroxide formation on long-term storage. Do not distill or allow to evaporate to near dryness. Keep material from heat, light, and flame.

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

8. Exposure controls / personal protection

Occupational exposure controls

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Regulatory List</th>
<th>Value Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic acid</td>
<td>ACGIH</td>
<td>time weighted average</td>
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<td>ACGIH</td>
<td>Short term exposure limit</td>
<td>15 ppm</td>
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<tr>
<td></td>
<td>OSHA Z1</td>
<td>time weighted average</td>
<td>10 ppm 25 mg/m3</td>
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<tr>
<td></td>
<td>OSHA Z1A</td>
<td>time weighted average</td>
<td>10 ppm 25 mg/m3</td>
</tr>
</tbody>
</table>

Ventilation: Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.
Respiratory protection: None should be needed. If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: full-face with organic vapour & P95 particulate filter. 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.

Hand protection: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

9. Physical and chemical properties

- **Physical form:** liquid
- **Colour:** amber
- **Odour:** vinegar
- **Specific gravity:** 1.12
- **Vapour pressure (at 20.0 °C (68.0 °F))**: 24 mbar (18.0 mm Hg)
- **Vapour density:** 0.6
- **Volatile fraction by weight:** < 5 %
- **Boiling point/boiling range:** > 100.0 °C (> 212.0 °F)
- **Water solubility:** complete
- **pH:** no data available
- **Flash point:** > 93.3 °C (> 200.0 °F) estimated

10. Stability and reactivity

- **Stability:** Stable; however, forms peroxides of unknown stability.
- **Incompatibility:** Strong oxidizing agents.
- **Hazardous decomposition products:** None under normal conditions of use.
- **Hazardous Polymerization:** Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure
General advice:

Contains: Diethylene glycol. Can cause kidney damage and CNS effects following ingestion. Repeated oral exposure to high doses can cause liver damage.

Contains: 1,4-diphenyl-3-(phenylammonio)-1H-1,2,4-triazolium. The toxicological properties of this material have not been fully investigated and its handling and use may present additional hazards.

**Inhalation:** Expected to be a low hazard for recommended handling.

**Eyes:** Causes eye irritation. However, immediate flushing of the eyes with water will minimize any irritative effect. Airborne dust/mist/vapor irritating.

**Skin:** May cause allergic skin reaction.

**Ingestion:** Harmful if swallowed.

Data for Diethylene glycol (CAS 111-46-6):

**Acute Toxicity Data:**
- Oral LD50 (rat): > 3,200 mg/kg
- Dermal LD50: > 10,000 mg/kg
- Skin irritation: slight to moderate
- Skin irritation: slight
- Eye irritation: slight

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
- Eye irritation (washed eyes): severe
- Eye irritation (unwashed eyes): severe

Data for 1,4-diphenyl-3-(phenylammonio)-1H-1,2,4-triazolium (CAS 2218-94-2):

**Acute Toxicity Data:**
- Oral LD50 (rat): 50 - 400 mg/kg
- Dermal LD50 (guinea pig): > 2,200 mg/kg
- Skin irritation: very slight

12. Ecological information

The following properties are ESTIMATED from the components of the preparations.
Potential Toxicity:

Toxicity to fish (LC50): > 100 mg/l
Toxicity to daphnia (EC50): > 100 mg/l
Toxicity to algae (IC50): > 100 mg/l
Toxicity to other organisms (EC50): > 100 mg/l (sludge)

Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): ca. 1731 g/l
Biochemical Oxygen Demand (BOD): ca. 206 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

Not regulated for all modes of transportation.

For more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Notification status

<table>
<thead>
<tr>
<th>Regulatory List</th>
<th>Notification status</th>
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<tbody>
<tr>
<td>KECI (KR)</td>
<td>y (positive listing)</td>
</tr>
<tr>
<td>INV (CN)</td>
<td>y (positive listing)</td>
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<tr>
<td>AICS</td>
<td>y (positive listing)</td>
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<td>TSCA</td>
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<td>EINECS</td>
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<tr>
<td>ENCS (JP)</td>
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<td>PICCS (PH)</td>
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<tr>
<td>DSL</td>
<td>y (positive listing)</td>
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</tbody>
</table>

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 Kodak.

Other regulations
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: Diethylene glycol (111-46-6), Acetic acid (64-19-7), 1,4-diphenyl-3-(phenylammonio)-1H-1,2,4-triazolium (2218-94-2)

WARNING!
MAY FORM EXPLOSIVE PEROXIDES
HARMFUL IF SWALLOWED
CAUSES EYE IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION
CAN CAUSE KIDNEY DAMAGE AND CNS EFFECTS FOLLOWING INGESTION

Keep container tightly closed.
Store away from heat and light.
Do not allow to evaporate to near dryness.
Avoid breathing mist or vapour at concentrations greater than the exposure limits.
Avoid contact with eyes, skin, and clothing.
Use only with adequate ventilation.
Wash thoroughly after handling.

FIRST AID: If symptomatic, move to fresh air. Get medical attention if symptoms occur. Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Get medical attention 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.

IN CASE OF SPILL: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

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.

R-1, S-2, F-1, C-1E