

# Safety Data Sheet

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**Kodak alaris**

## 1. Identification of the substance/mixture and of the company/undertaking

**Product name:** KODAK EKTACOLOR PRIME RA Developer Replenisher RT, Part A

**Product code:** 6600340 - Part A

**Supplier:** Kodak Alaris Australia Pty Limited, Ground Floor, 2 Domville Avenue, Hawthorn, Victoria 3122, Australia

IN EMERGENCY, telephone: (02) 90372994.

For further information about this product, telephone 1300 252 747 or email [EHS-Questions@Kodakalaris.com](mailto:EHS-Questions@Kodakalaris.com).

**Synonyms:** PCD 6076

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

## 2. Hazards identification

**Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:**

Hazard class	Hazard category	Route of exposure
Flammable liquids	Category 4	--
Acute toxicity	Category 4	--
Skin irritation	Category 2	--
Eye irritation	Category 2A	--
Specific target organ toxicity - single exposure	Category 2	--
Specific target organ toxicity - single exposure	Category 3	--

### GHS-Labeling

**Contains:**

Triethanolamine (102-71-6), N,N-diethylhydroxylamine (3710-84-7)

**Symbol(s):**



Exclamation Mark



Health Hazard

**Signal word:** Warning

**Hazard statements:** Combustible liquid. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause damage to organs. (Kidney, Liver.) May cause respiratory irritation.

**Precautionary statements:**

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**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/ gas/ mist/ vapours/ spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Response:** In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Storage:** Store in a well-ventilated place. Keep cool.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulation.

## Other hazards which do not result in classification:

Heat sensitive - can decompose if heated.

**HMIS III Hazard Ratings:** Health - 2\*, Flammability - 2, Physical Hazard - 1

**NFPA Hazard Ratings:** Health - 3, Flammability - 2, Instability - 1

NOTE: HMIS III and NFPA 704 (2007) 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. To adequately address safe handling, ALL information in this MSDS must be considered.

## 3. Composition/information on ingredients

Weight percent	Components (CAS-No.)
20 - 25	Triethanolamine (102-71-6)
10 - 15	N,N-diethylhydroxylamine (3710-84-7)

## 4. First aid measures

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

**Skin:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

## 5. Firefighting measures

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**Hazchem Code:** Not specified

**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 sections.)

**Unusual Fire and Explosion Hazards:** Classified as combustible. Material contains a combustible solvent that may accumulate in the container headspace. Elevated temperature can cause decomposition.

## 6. Accidental release measures

Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Contaminated absorbent should be disposed of in accordance with local regulations. Clean surface thoroughly to remove residual contamination.

## 7. Handling and storage

**Personal precautions:** Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Avoid contact with eyes, skin, and clothing. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**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:** Store in cool place. 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
Triethanolamine	Australia	time weighted average	5 mg/m <sup>3</sup>
Triethanolamine	New Zealand	time weighted average	5 mg/m <sup>3</sup>

**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. 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 eye/face protection.

**Hand protection:** Wear protective gloves.

## 9. Physical and chemical properties

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**Physical form:** liquid

**Colour:** yellow

**Odour:** amine

**Specific gravity:** 1.05

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

**Vapour density:** 0.6

**Boiling point/boiling range:** > 100 °C (> 212.0 °F)

**Water solubility:** complete

**pH:** 10.9

**Flash point:** 65 °C (149.0 °F)

**Flammability Limits:** Not specified

## 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.

Exotherm onset temperature: 169 °C by DSC

**Incompatibility:** Strong oxidizing agents

**Hazardous decomposition products:** Nitrogen oxides (NO<sub>x</sub>).

**Hazardous Polymerization:** Hazardous polymerisation does not occur.

## 11. Toxicological information

### Effects of Exposure

#### General advice:

Contains: Triethanolamine. Based on animal data, may cause adverse effects on the following organs/systems: kidney, liver.

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

**Eyes:** No specific hazard known. May cause transient irritation.

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

**Ingestion:** Expected to be a low ingestion hazard.

**Data for Triethanolamine (CAS 102-71-6):**

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## Acute Toxicity Data:

Oral LD50 (rat): 9,119 mg/kg

- Dermal LD50 (rabbit): >20 mL/kg
- Skin irritation: Mild skin irritation
- Skin Sensitization (guinea pig): negative
- Eye irritation: Irritating to eyes.

## Data for N,N-diethylhydroxylamine (CAS 3710-84-7):

### Acute Toxicity Data:

Oral LD50 (rat): 2,190 mg/kg

- Inhalation LC50 (rat): 3140 ppm / 4 hr
- Dermal LD50 (rabbit): 1,300 mg/kg
- Skin irritation: severe
- Skin Sensitization (guinea pig): negative
- Eye irritation (unwashed eyes): 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:

- Inhalation (28-day, male and female rat): NOAEL; 150 ppm/6 hours/day

## 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): Daphnia: > 100 mg/l

**Persistence and degradability:** Readily biodegradable.

## 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.

**ADG:** Not regulated

**IATA:** Not regulated

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**IMDG:** Not regulated

For more transportation information, go to: [www.kodak.com/go/ship](http://www.kodak.com/go/ship).

## 15. Regulatory information

### Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	Not all listed
NDSL	Listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	Not all listed
IECS	All listed
ENCS	All listed
ECI	All listed
NZIoC	All listed
PICCS	All listed

"Not all listed" 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.

**Poisons Schedule:** 5

**Australian Safety and Compensation Council:** none

### Other regulations

Australia National Model Regulations for the Control of Scheduled Carcinogenic Substances      No components listed

## 16. Other information

### Australian Safety and Compensation Council Labeling:

Not classified as hazardous according to criteria of Australian Safety and Compensation Council

### National Health and Medical Research Council Standard for the Uniform Scheduling of Drugs and Poisons Labeling:

**CAUTION  
KEEP OUT OF REACH OF CHILDREN  
DO NOT SWALLOW  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

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**Contains:** Triethanolamine (247.275 g/L)

**Warning:** Irritant.

**Safety Phrases:** Avoid contact with skin or eyes.

**First aid:** For advice, contact a Poisons Information Centre (Australia 13 1126; New Zealand 0800 764 766) or a doctor. If swallowed, do NOT induce vomiting. If in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

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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.

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

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**Kodak alaris**

## 1. Identification of the substance/mixture and of the company/undertaking

**Product name:** KODAK EKTACOLOR PRIME RA Developer Replenisher RT, Part B

**Product code:** 6600340 - Part B

**Supplier:** Kodak Alaris Australia Pty Limited, Ground Floor, 2 Domville Avenue, Hawthorn, Victoria 3122, Australia

IN EMERGENCY, telephone: (02) 90372994.

For further information about this product, telephone 1300 252 747 or email EHS-Questions@Kodakalaris.com.

**Synonyms:** PCD 6432

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

## 2. Hazards identification

**Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:**

Hazard class	Hazard category	Route of exposure
Corrosive to metals	Category 1	--
Acute toxicity	Category 4	Oral
Skin corrosion/irritation	Category 2	--
Serious eye damage/eye irritation	Category 2	--
Skin sensitisation	Category 1	--
Specific target organ toxicity - single exposure	Category 1	--
Specific target organ toxicity - single exposure	Category 2	--

### GHS-Labeling

**Contains:**

4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate (25646-71-3), Lithium sulphate (10377-48-7), Potassium sulphite (10117-38-1)

**Symbol(s):**



Corrosion



Exclamation Mark



Health Hazard

**Signal word:** Danger



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**Hazard statements:** May be corrosive to metals. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Causes damage to organs. (Central nervous system.) May cause damage to organs. (Kidney.)

## Precautionary statements:

**Prevention:** Keep only in original container. Wear protective gloves/ eye protection/ face protection. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.

**Response:** Absorb spillage to prevent material damage. IF exposed: Call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

**Storage:** Store in corrosive resistant container with resistant inliner.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulation.

## Other hazards which do not result in classification:

MAY LIBERATE SULFUR DIOXIDE

The toxicological properties of this material have not been fully investigated and its handling and use may be hazardous.

**HMIS III Hazard Ratings:** Health - 2\*, Flammability - 1, Physical Hazard - 0

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

NOTE: HMIS III and NFPA 704 (2007) 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. To adequately address safe handling, ALL information in this MSDS must be considered.

## 3. Composition/information on ingredients

Weight percent	Components (CAS-No.)
25 - 30	4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate (25646-71-3)
5 - 10	Lithium sulphate (10377-48-7)
1 - 5	Potassium sulphite (10117-38-1)

## 4. First aid measures

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

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

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**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 if symptoms occur. 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. Firefighting measures

**Hazchem Code:** 2X

**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.

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

**Unusual Fire and Explosion Hazards:** None.

## 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. Contaminated absorbent should be disposed of in accordance with local regulations.

## 7. Handling and storage

**Personal precautions:** Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product.

**Prevention of Fire and Explosion:** 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
Sulphur dioxide	Australia	time weighted average	2 ppm 5.2 mg/m <sup>3</sup>
		Short term exposure limit	5 ppm 13 mg/m <sup>3</sup>
Sulphur dioxide	New Zealand	time weighted average	2 ppm 5.2 mg/m <sup>3</sup>
		Short term exposure limit	5 ppm 13 mg/m <sup>3</sup>

**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: acid gas If respirators are used, a

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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:** yellow

**Odour:** sharp sulphur dioxide

**Specific gravity:** 1.18

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

**Vapour density:** 0.6

**Boiling point/boiling range:** > 100 °C (> 212.0 °F)

**Water solubility:** complete

**pH:** 1.2

**Flash point:** > 93.33 °C (> 200.0 °F) estimated

**Flammability Limits:** Not specified

### 10. Stability and reactivity

**Stability:** Stable under normal conditions.

**Incompatibility:** Strong oxidizing agents, Acids, Bases, Metals 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: 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate. May cause kidney damage based on animal data.

Contains: Lithium sulphate. The toxicological properties of this material have not been fully investigated and its handling and use may present additional hazards. This material is pharmacologically active. Can cause CNS effects.

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**Inhalation:** Expected to be a low hazard for recommended handling. Some asthmatics or hypersensitive individuals may experience difficulty breathing.

**Eyes:** No specific hazard known. May cause transient irritation.

**Skin:** May cause sensitisation by skin contact.

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

## Data for 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate (CAS 25646-71-3):

### Acute Toxicity Data:

Oral LD50 (male rat): 400 mg/kg (target organ effects: kidney)

- Oral LD50 (female rat): 246 mg/kg
- Dermal LD50: > 1,000 mg/kg (highest dose tested)
- Skin irritation: moderate (repeated skin application)
- Skin Sensitization (guinea pig): moderate
- Skin Sensitization (human): positive
- Eye irritation (unwashed eyes): moderate
- Eye irritation (washed eyes): slight

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.

### Carcinogenicity:

- Oral study (hamster, 2 years): NOEL; 0.04 % in diet (highest dose tested)

## Data for Lithium sulphate (CAS 10377-48-7):

### Acute Toxicity Data:

Oral LD50 (mouse): 1,190 mg/kg

- Oral LD50 (rat): 800 - 1,600 mg/kg
- Dermal LD50: > 1,000 mg/kg
- Skin irritation: moderate

## Data for Potassium sulphite (CAS 10117-38-1):

### Acute Toxicity Data:

Oral LD50 (rat): > 3,200 mg/kg

- Oral LD50 (mouse): > 3,200 mg/kg
- Dermal LD50 (guinea pig): > 20,000 mg/kg
- Skin irritation: slight to moderate

## 12. Ecological information

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

### Potential Toxicity:

Toxicity to fish (LC50): < 1 mg/l

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Toxicity to daphnia (EC50): < 1 mg/l

**Persistence and degradability:** Not readily biodegradable.

### 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 below is provided to assist in documentation. It represents the dangerous goods classification before any regulatory exceptions are taken (e.g. "limited quantity") and therefore may not represent the final classification. The final classification as it pertains to the product packaging configuration (including labeling, marking, and exceptions) may be obtained via the Dangerous Goods Worksheet which can be found at [www.kodak.com/go/ship](http://www.kodak.com/go/ship).

**ADG:** UN number: UN3265  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate)  
Class: 8  
Packaging group: III  
Marine Pollutant status: Marine pollutant

**IATA:** UN number: UN3265  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate)  
Class: 8  
Packaging group: III  
Marine Pollutant status: Marine pollutant  
Marine Pollutant(s): 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate

**IMDG:** UN number: UN3265  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate)  
Class: 8  
Packaging group: III  
Marine Pollutant status: Marine pollutant  
Marine Pollutant(s): 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate

For more transportation information, go to: [www.kodak.com/go/ship](http://www.kodak.com/go/ship).

### 15. Regulatory information

#### Notification status

Regulatory List

Notification status

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TSCA	All listed
DSL	All listed
NDSL	None listed
EINECS	All listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	All listed
ECI	All listed
NZIoC	All listed
PICCS	All listed

"Not all listed" 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.

**Poisons Schedule:** 6

**Australian Safety and Compensation Council:** none

## Other regulations

Australia National Model Regulations for the Control of  
Scheduled Carcinogenic Substances

No components listed

## 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. The actual label information will depend upon the intended use of the product. Australian Safety and Compensation Council labeling appears for commercial/industrial use.

### Australian Safety and Compensation Council Labeling:



**Symbol/Indication of Danger:**

Xn: Harmful  
N: Dangerous for the environment

**Risk Phrases:**

R22: Harmful if swallowed.  
R43: May cause sensitisation by skin contact.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**Safety Phrases:**

S24: Avoid contact with skin.

S36/37: Wear suitable protective clothing and gloves.

S57: Use appropriate container to avoid environmental contamination.

**National Health and Medical Research Council Standard for the Uniform Scheduling of Drugs and Poisons Labeling:**

**POISON**

**KEEP OUT OF REACH OF CHILDREN**

**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

**Contains:** 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate (306.564 g/L)

**Safety Phrases:** Avoid contact with skin or eyes. Avoid breathing dust (or) vapour (or) spray mist.

**First aid:** For advice, contact a Poisons Information Centre (Australia 13 1126; New Zealand 0800 764 766) or a doctor. Urgent hospital treatment is likely to be needed. If swallowed, do NOT induce vomiting. If in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

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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.

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R-2, S-3, F-1, C-0

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**Kodak alaris**

## 1. Identification of the substance/mixture and of the company/undertaking

**Product name:** KODAK EKTACOLOR PRIME RA Developer Replenisher RT, Part C

**Product code:** 6600340 - Part C

**Supplier:** Kodak Alaris Australia Pty Limited, Ground Floor, 2 Domville Avenue, Hawthorn, Victoria 3122, Australia

IN EMERGENCY, telephone: (02) 90372994.

For further information about this product, telephone 1300 252 747 or email [EHS-Questions@Kodakalaris.com](mailto:EHS-Questions@Kodakalaris.com).

**Synonyms:** PCD 6087

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

## 2. Hazards identification

**Classification of the chemical in accordance with paragraph (d) of 29 CFR 1910.1200:**

Hazard class	Hazard category	Route of exposure
Corrosive to metals	Category 1	--
Skin corrosion/irritation	Category 2	--
Serious eye damage/eye irritation	Category 1	--
Specific target organ toxicity - single exposure	Category 3	--

### GHS-Labeling

**Contains:**

Potassium carbonate (584-08-7), Potassium hydroxide (1310-58-3)

**Symbol(s):**



Corrosion



Exclamation Mark

**Signal word:** Danger

**Hazard statements:** May be corrosive to metals. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.

**Precautionary statements:**



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**Prevention:** Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Use only outdoors or in a well-ventilated area.

**Response:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.

**Storage:** Store in corrosive resistant container with resistant inliner. Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulation.

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

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

NOTE: HMIS III and NFPA 704 (2007) 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. To adequately address safe handling, ALL information in this MSDS must be considered.

## 3. Composition/information on ingredients

Weight percent	Components (CAS-No.)
30 - 35	Potassium carbonate (584-08-7)
1 - <3	Potassium hydroxide (1310-58-3)
1 - 5	Potassium chloride (7447-40-7)

## 4. First aid measures

**Inhalation:** If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

**Skin:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

**Ingestion:** Call a POISON CENTER or doctor/ physician if you feel unwell.

### Notes to physician:

**Treatment:** Strong alkalis bind tissue protein. Following initial flushing of the eye with water, continued irrigation of the eye with saline is recommended.

## 5. Firefighting measures

**Hazchem Code:** 2R

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**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special Fire-Fighting Procedures:** None (noncombustible)

**Hazardous Combustion Products:** None (noncombustible)

**Unusual Fire and Explosion Hazards:** None.

## 6. Accidental release measures

Contaminated absorbent should be disposed of in accordance with local regulations. 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. Do not get in eyes and avoid contact with skin and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Prevention of Fire and Explosion:** No special technical protective measures required.

**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
Potassium hydroxide	Australia	Peak	2 mg/m <sup>3</sup>
Potassium hydroxide	New Zealand	Ceiling Limit Value	2 mg/m <sup>3</sup>

**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: N95 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:** Wear eye/face protection.

**Hand protection:** Wear protective gloves.

## 9. Physical and chemical properties

**Physical form:** liquid

**Colour:** colourless

**Odour:** odourless

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**Specific gravity:** 1.37

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

**Vapour density:** 0.6

**Boiling point/boiling range:** > 100 °C (> 212.0 °F)

**Water solubility:** complete

**pH:** 14

**Flash point:** does not flash

**Flammability Limits:** Not specified

## 10. Stability and reactivity

**Stability:** Stable under normal conditions.

**Incompatibility:** Strong oxidizing agents, Acids, Metals

**Hazardous decomposition products:** None under normal conditions of use.

**Hazardous Polymerization:** Hazardous polymerisation does not occur.

## 11. Toxicological information

### Effects of Exposure

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

**Eyes:** Causes burns.

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

**Ingestion:** Expected to be a low hazard for recommended handling. May cause burns of the gastrointestinal tract if swallowed.

### Acute Toxicity Data:

- Skin irritation: none
- Eye irritation: severe

### Data for Potassium carbonate (CAS 584-08-7):

#### Acute Toxicity Data:

Oral LD50 (rat): 1,870 mg/kg

### Data for Potassium hydroxide (CAS 1310-58-3):

#### Acute Toxicity Data:

Oral LD50 (rat): 273 mg/kg

- Skin irritation: severe

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- Eye irritation: Corrosive

## 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

**Persistence and degradability:** Readily biodegradable.

## 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.

**ADG:** UN number: UN1814  
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION  
Class: 8  
Packaging group: III

**IATA:** UN number: UN1814  
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION  
Class: 8  
Packaging group: III

**IMDG:** UN number: UN1814  
Proper shipping name: POTASSIUM HYDROXIDE SOLUTION  
Class: 8  
Packaging group: III

For more transportation information, go to: [www.kodak.com/go/ship](http://www.kodak.com/go/ship).

## 15. Regulatory information

### Notification status

Regulatory List	Notification status
TSCA	All listed
DSL	All listed

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NDSL	None listed
EINECS	All listed
ELINCS	None listed
NLP	None listed
AICS	All listed
IECS	All listed
ENCS	All listed
ECI	All listed
NZIoC	All listed
PICCS	All listed

"Not all listed" 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.

**Poisons Schedule:** 6

**Australian Safety and Compensation Council:** none

**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. The actual label information will depend upon the intended use of the product. Australian Safety and Compensation Council labeling appears for commercial/industrial use.

**Australian Safety and Compensation Council Labeling:**



**Symbol/Indication of Danger:**

C: Corrosive

**Risk Phrases:**

R34: Causes burns.

**Safety Phrases:**

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

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

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

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### National Health and Medical Research Council Standard for the Uniform Scheduling of Drugs and Poisons Labeling:

#### **POISON**

**KEEP OUT OF REACH OF CHILDREN**

**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

**Contains:** Potassium hydroxide , Potassium carbonate

**Warning:** Corrosive. Strongly alkaline. May produce severe burns. Attacks skin and eyes.

**Safety Phrases:** Avoid contact with eyes. Wear eye protection when mixing or using. Avoid contact with skin. Wear protective gloves when mixing or using.

**First aid:** For advice, contact a Poisons Information Centre (Australia 13 1126; New Zealand 0800 764 766) or a doctor. If swallowed, do NOT induce vomiting. If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

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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.

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R-1, S-3, F-0, C-0