

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

Product name: KODAK EKTACOLOR SM Tank Developer / RA-2SM, Part B

Product code: 8619769 - Part B

Supplier: KODAK AUSTRALASIA Pty. Ltd., Level 2, 436 Johnston Street, Abbotsford, Victoria, 3067

For Chemical Emergency Information, in Australia call 1800 033111 (24 hour service Australia-wide); in New Zealand call 0800 734 607 (24 hour service); in Asia call +86 21 63500836

For Other Information, call 61 3 8417 8000.

Synonyms: PCD 6144

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

2. Hazards identification

STATEMENT OF HAZARDOUS NATURE: Hazardous according to criteria of Australian Safety and Compensation Council

Irritant. May cause sensitization by skin contact.

Poisons Schedule: 6

Contains: 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate

3. Composition/information on ingredients		
Weight percent	Components (CAS-No.)	

10 - 15	4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine
1 - 5	sesquisulphate monohydrate (25646-71-3) Lithium sulphate (10377-48-7)
0.1 - 1	Potassium sulphite (10117-38-1)

4. First aid measures

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

Eyes: If in eyes, wash out immediately with water. Get medical attention.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Get medical attention if symptoms occur.

Ingestion: Urgent hospital treatment is likely to be needed. Call a physician or poison control centre immediately. If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Hazchem Code: 2X

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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, Sulphur oxides, nitrogen oxides (NOx), (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. 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 get in eyes, on skin, or on clothing. Do not breathe vapours or spray mist. Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

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	Exposure Standards	time weighted average	2 ppm 5.2 mg/m3	
		Short term exposure limit	5 ppm 13 mg/m3	
Sulphur dioxide	New Zealand	time weighted average	2 ppm 5.2 mg/m3	
		Short term exposure limit	5 ppm 13 mg/m3	

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 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

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Colour: tan

Odour: sulphur dioxide

Specific gravity: 1.09

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: 1.5

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, Bases, Metals

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.

Inhalation: Expected to be a low hazard for recommended handling. Liberates sulphur dioxide gas which can cause irritation to the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficulty breathing.

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

Skin: May cause sensitization by skin contact.

Ingestion: Expected to be a low ingestion hazard. Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.

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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-observedadverse-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

- 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): 10 - 100 mg/l

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

Persistence and degradability: Readily biodegradable.

Chemical Oxygen Demand (COD): ca. 127 g/l

Biochemical Oxygen Demand (BOD): ca. 15 g/l

13. Disposal considerations

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

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

15. Regulatory information

Notification status

Notification status
All listed
All listed
None listed
All listed
None listed
None listed
All listed
All listed
All listed
All listed
All listed

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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:

Contains: 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate 12.74%

pH: 1 - 3



Symbol/Indication of Danger:	Xi: Irritant
Risk Phrases:	R43: May cause sensitization by skin contact.
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 (140.61 g/L) Revision Date 09.03.2012 Print Date: 19.03.2012 Z1700000009/Version: 2.0 Page: 7/7

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

First aid: For advice, contact a Poisons Information Centre (Australia 131 126; New Zealand 03 4747 000) or a doctor at once. 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.

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