

# Material Safety Data Sheet

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

**Product name:** KODAK PROFESSIONAL Color Developer Replenisher, Process E-6, Working Solution

**Product code:** 8372542 - Working Solution

**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:** None.

**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, Dangerous for the environment.** May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Poisons Schedule:** 5

**Contains:** Potassium hydroxide

## 3. Composition/information on ingredients

Weight percent	Components (CAS-No.)
1 - 5	Tripotassium phosphate (7778-53-2)
1 - 5	4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate (25646-71-3)
0.1 - <1	Sodium sulphite (7757-83-7)
0.1 - <0.5	Potassium hydroxide (1310-58-3)

## 4. First aid measures

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

**Eyes:** 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.

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

## 5. Fire-fighting measures

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**Hazchem Code:** Not specified

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

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

**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. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

**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
Sulphur dioxide	Exposure Standards	time weighted average	2 ppm 5.2 mg/m <sup>3</sup>
Sulphur dioxide	New Zealand	Short term exposure limit	5 ppm 13 mg/m <sup>3</sup>
		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:** 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.

**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:** colourless

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**Odour:** odourless

**Specific gravity:** 1.04

**Vapour pressure:** 24 mbar (18.0 mm Hg)

**Vapour density:** 0.6

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

**Water solubility:** completely soluble

**pH:** 12

**Flash point:** does not flash

**Flammability Limits:** Not specified

## 10. Stability and reactivity

**Stability:** Stable under normal conditions.

**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: 4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate. May cause kidney damage based on animal data.

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

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

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

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

### 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)

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- 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 Tripotassium phosphate (CAS 7778-53-2):**

### **Acute Toxicity Data:**

Oral LD50 (rat): 1,600 - 3,200 mg/kg (10% in water)

- Oral LD50 (rat): > 3,200 mg/kg
- Dermal LD50 (guinea pig): > 1,000 mg/kg
- Skin irritation: moderate to strong
- Eye irritation: severe

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

### **Acute Toxicity Data:**

Oral LD50 (rat): 273 mg/kg

- Skin irritation: severe

## **Data for Sodium sulphite (CAS 7757-83-7):**

### **Acute Toxicity Data:**

Oral LD50 (rat): 820 mg/kg

- Inhalation LC50 (rat): > 22 mg/l / 1 hr
- Inhalation LC50 (rat): > 5.5 mg/l / 4 hr
- Skin irritation: none
- Eye irritation: slight; washing palliative

## **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**

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Not regulated for all modes of transportation.

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	Not all listed
DSL	Not all listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	Not all listed
IECS	Not all listed
ENCS	Not all listed
ECI	Not all listed
NZIoC	Not all listed
PICCS	Not 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
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## 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:**

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**Symbol/Indication of Danger:**

Xi: Irritant  
N: Dangerous for the environment

**Risk Phrases:**

R43: May cause sensitization by skin contact.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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:**

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

**Contains:** Potassium hydroxide (2.6 g/L)

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

**Safety Phrases:** Avoid prolonged or repeated contact with skin. Wear protective gloves when mixing or using. Do not mix with hot water.

**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-2, F-0, C-0