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# **Kodak** alaris

# SAFETY DATA SHEET

# 1. Identification

Product identifier KODAK EKTACOLOR Digital Developer Replenisher RT, MX2052

Other means of identification

Synonyms Part A
Product code 8212185
SDS No. PCD 8003

Recommended use of the chemical and restrictions on use

**Recommended use** Photographic processing chemical. (developer/activator).

**Restrictions on use** For industrial use only.

Details of manufacturer or importer

Supplier Kodak Alaris Australia Pty Limited
Address Ground Floor, 2 Domville Avenue

Hawthorn, Victoria 3122

Australia

e-mail EHS-Questions@Kodakalaris.com

Emergency telephone

number

(02) 90372994

# 2. Hazard(s) identification

# Classification of the hazardous chemical

Physical hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Sensitization, skinCategory 1Specific target organ toxicity following singleCategory 2

exposure

**Environmental hazards** Not classified.

#### Label elements, including precautionary statements

Hazard symbol(s)



Signal word Danger

Hazard Statement(s) May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to organs.

**Precautionary Statement(s)** 

**Prevention** Keep only in original container. Do not breathe mist or vapour. Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. 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 CENTRE or

doctor/physician.

**Storage** Store locked up. Store in corrosive resistant container with a resistant inner liner.

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

Material name: KODAK EKTACOLOR Digital Developer Replenisher RT, MX2052

Other hazards which do not result in classification

None known.

**Supplemental information** 

None.

# 3. Composition/information on ingredients

#### **Mixture**

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
4-(N-ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate	25646-71-3	5 - 10
Triethanolamine	102-71-6	5 - 10
Sodium hydroxide	1310-73-2	1 - 5

# 4. First-aid measures

# Description of necessary first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

or poison control centre immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Personal protection for first-aid

responders

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

Symptoms caused by exposure Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

# 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Water spray. Alcohol resistant foam. Dry chemicals. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed. Carbon oxides. Nitrogen oxides (NOx).

Sulphur oxides.

Special protective equipment and precautions for fire

fighters

Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may

produce hazardous decomposition products.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

**Hazchem Code** None.

General fire hazards Can decompose at elevated temperatures.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

# 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be

contained. For personal protection, see section 8.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

**Environmental precautions** 

Methods and materials for containment and cleaning up

Avoid discharge into drains, water courses or onto the ground.

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

# 7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapour. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a cool, dry place out of direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep only in the original container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls and personal protection

**Control parameters** 

Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contami	nants, Appendix A)
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Components	Туре	Value			
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3			
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m3			
Australia OFI s. (Adonted National Exposure Standards for Atmospheric Contaminants in the Occupational					

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

ComponentsTypeValueTriethanolamine (CAS 102-71-6)TWA 5 mg/m3

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, for example personal protective equipment (PPE)

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection**If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Keep away from food and drink. Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing

should not be allowed out of the workplace.

# 9. Physical and chemical properties

# **Appearance**

**Physical state** Liquid. Liquid. **Form** 

No data available Colour

odorless Odour **Odour threshold** Not available.

13.2 pН

Not available. Melting point/freezing point > 35 °C (> 95 °F) Initial boiling point and boiling

range

> 93.3 °C (> 200.0 °F) Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Not available.

(%)

Flammability limit - upper

Explosive limit - lower (%) Not available.

Explosive limit - upper

Not available.

(%)

18 mm Hg Vapour pressure

0.6 Vapour density

Not available. Relative density

Solubility(ies)

Solubility (water) Complete Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity** 

Other physical and chemical parameters

**Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

1.09 Specific gravity

# 10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents. May be corrosive

to metals.

**Chemical stability** Decomposes on heating.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with

other chemicals.

Incompatible materials Strong oxidising agents. Acids. Metals. Nitrogen oxides (NOx). Sulphur oxides. **Hazardous decomposition** 

products

# 11. Toxicological information

# Information on possible routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes severe skin burns. May cause an allergic skin reaction.

Eye contact Causes serious eve damage.

Ingestion Harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed. Symptoms related to

exposure

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Acute toxicity Harmful if swallowed.

Components Species Test results

Triethanolamine (CAS 102-71-6)

Acute Dermal

LD50 Rabbit > 20000 mg/kg

Oral

LD50 Guinea pig 5300 mg/kg

Rat 8 g/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitizer.

**Skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Triethanolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

May cause damage to organs.

Specific target organ

toxicity - repeated

exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

**Chronic effects** May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Components Species Test results

Sodium hydroxide (CAS 1310-73-2)

**Aquatic** 

Crustacea EC50 Water flea (Ceriodaphnia dubia) 34.59 - 47.13 mg/l, 48 hours

Fish LC50 Western mosquitofish (Gambusia affinis) 125 mg/l, 96 hours

Persistence and degradability

Not readily biodegradable.

Bioaccumulative potential

Mobility in soil No data available for this product.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

## **ADG**

**UN** number 1824

UN proper shipping name Sodium hydroxide solution

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group

**Environmental hazards** Not available.

**Hazchem Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IATA** 

**UN** number 1824

Sodium hydroxide solution **UN** proper shipping name

Transport hazard class(es)

8 Class Subsidiary risk Packing group Ш **Environmental hazards** No. **ERG Code** 8L

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN** number

**UN** proper shipping name Transport hazard class(es) SODIUM HYDROXIDE SOLUTION, MARINE POLLUTANT

Class 8 Subsidiary risk Packing group Ш **Environmental hazards** 

Marine pollutant Yes

**EmS** F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and the IBC Code

**ADG** 



# IATA; IMDG



## Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

# 15. Regulatory information

#### Safety, health and environmental regulations

**National regulations** 

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

## Australia Medicines & Poisons Appendix E

PHENYLENEDIAMINES INCLUDING ALKYLATED, ARYLATED AND NITRO DERIVATIVES, IN HAIR DYES (CAS 25646-71-3)

SODIUM HYDROXIDE (CAS 1310-73-2)

TROLAMINE (CAS 102-71-6)

# Australia Medicines & Poisons Appendix F

PHENYLENEDIAMINES INCLUDING BOTH ALKYLATED, ARYLATED AND NITRO DERIVATIVE (CAS 25646-71-3) SODIUM HYDROXIDE (CONC<=0.5%) (CAS 1310-73-2)

TROLAMINE (CAS 102-71-6)

## **Australia Medicines & Poisons Schedule 10**

SODIUM HYDROXIDE (EXLCUDING ITS SALTS AND DERIVATIVES) (CAS 1310-73-2)

## Australia Medicines & Poisons Schedule 4

TROLAMINE (CAS 102-71-6)

# Australia Medicines & Poisons Schedule 5

SODIUM HYDROXIDE (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 1310-73-2)

TROLAMINE (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 102-71-6)

# Australia Medicines & Poisons Schedule 6

PHENYLENEDIAMINES INCLUDING ALKYLATED, ARYLATED, AND NITRO DERIVATIVES NOT ELSEWHERE SPECIFIED IN THESE SCHEDULES (CAS 25646-71-3)

SODIUM HYDROXIDE (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 1310-73-2)

## **High Volume Industrial Chemicals (HVIC)**

Sodium hydroxide (CAS 1310-73-2) Triethanolamine (CAS 102-71-6) > 1000000 TONNES See the regulation for additional information. 1000 - 9999 TONNES See the regulation for additional information.

## Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

# National Pollutant Inventory (NPI) substance reporting list

Not listed.

# **Prohibited Carcinogenic Substances**

Not regulated.

# Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed

# Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed

## **Restricted Carcinogenic Substances**

Not regulated.

# International regulations

#### **Stockholm Convention**

Not applicable.

## **Rotterdam Convention**

Not applicable.

## **Kyoto protocol**

Not applicable.

## **Montreal Protocol**

Not applicable.

## **Basel Convention**

Not applicable.

Country(s) or region

Inventory name

## **International Inventories**

Australia

Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Australian Inventory of Chemical Substances (AICS)

Toxic Substances Control Act (TSCA) Inventory

## 16. Other information

United States & Puerto Rico

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**Disclaimer** Kodak Alaris cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

On inventory (yes/no)\*

No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).