Issue date: 09-January-2017 Revision date: 26-June-2018 Supersedes date: 09-January-2017 Version number: 03

# SAFETY DATA SHEET

# **Kodak** alaris

#### 1. Identification

Product identifier KODAK FLEXICOLOR LU DEVELOPER REPLENISHER

Other means of identification

 Product code
 6601496A

 SDS No.
 PCD 6652

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

SupplierKodak Alaris Australia Pty LimitedAddressGround 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 hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 1

Specific target organ toxicity following single Category 3 respiratory tract irritation

exposure

**Environmental hazards** Not classified.

# Label elements, including precautionary statements

Hazard symbol(s)



Corrosion Exclamation

Signal word Danger

Hazard Statement(s) May be corrosive to metals. Causes skin irritation. Causes serious eye damage. May cause

respiratory irritation.

**Precautionary Statement(s)** 

**Prevention** Keep only in original container. Avoid breathing mist or vapour. Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area. Wear eye protection/face protection. Wear

protective gloves.

**Response** IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and

keep at rest in a position comfortable for breathing. 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. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Absorb spillage to prevent material

damage.

Storage Store in a well-ventilated place. Keep container tightly closed. 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 FLEXICOLOR LU DEVELOPER REPLENISHER 2500

Other hazards which do not result in classification

Can decompose at elevated temperatures.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixture**

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Potassium carbonate	584-08-7	30 - 35
Pentetic acid, pentasodium salt	140-01-2	1 - 5
Potassium hydroxide	1310-58-3	1 - 5
Sodium metabisulphite	7681-57-4	1 - 5

#### 4. First-aid measures

Description of necessary first aid measures

Inhalation 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.

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Get medical attention immediately.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

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.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred Symptoms caused by exposure

vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Skin irritation. May cause redness and pain.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

## 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

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.

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. Avoid breathing 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.

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

SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground. Methods and materials for containment and cleaning up

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 get this material in contact with eyes. Avoid breathing mist or vapour. Avoid contact with

eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. 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 Contaminants, Appendix A)

Components	туре	value
Potassium hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m3
Sodium metabisulphite (CAS 7681-57-4)	TWA	5 mg/m3

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

**Environment)** 

ComponentsTypeValueSodium metabisulphiteTWA5 mg/m3(CAS 7681-57-4)

**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).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

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 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.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.
Form Liquid.
Colour colourless
Odour odorless

Odour threshold

pH

10.1 - 10.2

Melting point/freezing point

Not available.

10.2 \ 0.3 \ 0.40 \

Initial boiling point and boiling

range

> 100 °C (> 212 °F)

Flash point does not flash.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper

(%)

Not available.

Vapour pressure 18 mm Hg

Vapour density 0.6

Relative density Not available.

Solubility(ies)

Solubility (water) Complete

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other physical and chemical parameters

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

Specific gravity 1.4

## 10. Stability and reactivity

**Reactivity** May be corrosive to metals.

**Chemical stability** Material is stable under normal conditions. Decomposes on heating.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials Strong oxidising agents. Metals. Contact with strong acids may liberate sulphur dioxide.

Hazardous decomposition

products

Sulphur oxides. Nitrogen oxides (NOx).

## 11. Toxicological information

#### Information on possible routes of exposure

**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 difficulty breathing.

**Skin contact**Causes skin irritation. This material has a low potential to cause allergic skin reactions; however,

cases of human skin sensitization have been reported.

Eye contact Irritating to eyes.

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.

Symptoms related to

exposure

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Skin irritation. May cause redness and pain.

Components Species **Test results** 

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

Oral

LD50 Rat 3200 mg/kg

Potassium carbonate (CAS 584-08-7)

Acute **Dermal** 

LD50 Rat > 2000 mg/kg

Inhalation

Rat > 4.96 mg/l/4h LC50

Oral

LD50 Rat 1870 mg/kg

Potassium hydroxide (CAS 1310-58-3)

**Acute** Oral

LD50 Rat 273 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

This product is not expected to cause skin sensitisation. Skin sensitisation

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

mutagenic or genotoxic.

Carcinogenicity

**ACGIH Carcinogens** 

Sodium metabisulphite (CAS 7681-57-4) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium metabisulphite (CAS 7681-57-4) 3 Not classifiable as to carcinogenicity to humans.

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

Specific target organ

May cause respiratory irritation.

toxicity - single exposure

Specific target organ

toxicity - repeated

exposure **Aspiration hazard** 

Not an aspiration hazard.

Not classified.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

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

Components **Test results Species** 

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

Aquatic

LC50 1005 - 1250 mg/l, 96 hours Fish Bluegill (Lepomis macrochirus)

Potassium hydroxide (CAS 1310-58-3)

**Aquatic** 

Fish LC50 Western mosquitofish (Gambusia affinis) 80 mg/l, 96 hours

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available.

No data available for this product. Mobility in soil

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

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.

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

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

Disposal instructions).

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

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

disposal.

## 14. Transport information

**ADG** 

3266 **UN number** 

**UN** proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (Potassium carbonate)

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 3266

**UN** proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (Potassium carbonate)

Transport hazard class(es)

Class 8 Subsidiary risk Ш Packing group **Environmental hazards** Nο **FRG Code** 8L

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN number** 

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium carbonate) **UN proper shipping name** 

Transport hazard class(es)

Class 8 Subsidiary risk Packing group Ш

**Environmental hazards** 

MARINE POLLUTANT Marine pollutant

**EmS** F-A. S-B

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

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

# **ADG**



#### IATA; IMDG



# 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

ALKALINE SALTS (CAS 584-08-7)

POTASSIUM HYDROXIDE (CAS 1310-58-3)

sodium metabisulphite (CAS 7681-57-4)

### Australia Medicines & Poisons Appendix F

ALKALINE SALTS (CAS 584-08-7)

POTASSIUM HYDROXIDE (CONC<=0.5%) (CAS 1310-58-3)

SODIUM METABISULPHITE (CONC >50%) (CAS 7681-57-4)

#### Australia Medicines & Poisons Schedule 10

ALKALINE SALTS, BEING THE CARBONATE, SILICATE OR PHOSPHATE SALTS OF SODIUM OR POTASSIUM ALONE OR IN ANY COMBINATION (CAS 584-08-7)

POTASSIUM HYDROXIDE (EXLCUDING ITS SALTS AND DERIVATIVES) (CAS 1310-58-3)

#### Australia Medicines & Poisons Schedule 5

ALKALINE SALTS, BEING THE CARBONATE, SILICATE OR PHOSPHATE SALTS OF SODIUM OR POTASSIUM ALONE OR IN ANY COMBINATION, EXCEPT WHEN SEPARATELY SPECIFIED IN THESE SCHEDULES (CAS 584-08-7) POTASSIUM HYDROXIDE (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 1310-58-3) sodium metabisulphite (CAS 7681-57-4)

## Australia Medicines & Poisons Schedule 6

ALKALINE SALTS, BEING THE CARBONATE, SILICATE OR PHOSPHATE SALTS OF SODIUM OR POTASSIUM ALONE OR IN ANY COMBINATION, EXCEPT WHEN SEPARATELY SPECIFIED IN THESE SCHEDULES (CAS 584-08-7) POTASSIUM HYDROXIDE (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 1310-58-3)

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

Pentetic acid, pentasodium salt (CAS 140-01-2) 1000 - 9999 TONNES See the regulation for additional

information.

Potassium carbonate (CAS 584-08-7) 1000 - 9999 TONNES See the regulation for additional

information.

Potassium hydroxide (CAS 1310-58-3) 1000 - 9999 TONNES See the regulation for additional

information.

Sodium metabisulphite (CAS 7681-57-4) 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.

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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	Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

## 16. Other information

**Issue date** 09-January-2017 **Revision date** 26-June-2018

**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.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

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).

Issue date: 05-January-2017 Revision date: 26-June-2018 Supersedes date: 05-January-2017 Version number: 03

# **Kodak** alaris

# SAFETY DATA SHEET

#### 1. Identification

Product identifier KODAK FLEXICOLOR LU DEVELOPER REPLENISHER

Other means of identification

 Product code
 6601496B

 SDS No.
 PCD 6503

Recommended use of the chemical and restrictions on use

**Recommended use** Photographic processing chemical.

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

Details of manufacturer or importer

SupplierKodak Alaris Australia Pty LimitedAddressGround 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 2Serious eye damage/eye irritationCategory 2ASensitization, skinCategory 1

Specific target organ toxicity following single Category 1 (blood system)

exposure (oral)

Carcinogenicity

**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 skin irritation. May cause an allergic

skin reaction. Causes serious eye irritation. Suspected of causing cancer. Causes damage to

Category 2

organs (blood system) by ingestion.

**Precautionary Statement(s)** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep only in original container. Do not breathe mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face protection. Wear protective

gloves. Use personal protective equipment as required.

Response IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. IF

ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed:

Call a POISON CENTRE or doctor/physician. IF exposed or concerned: Get medical

advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Absorb spillage to prevent material damage.

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.

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
Bis(hydroxylammonium) sulphate	10039-54-0	10 - 15

# 4. First-aid measures

# Description of necessary first aid measures

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

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Personal protection for first-aid

responders

IF exposed or concerned: Get medical advice/attention. 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 Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

Rash

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

# 5. Fire-fighting measures

**Extinguishing media** 

Suitable extinguishing

media

Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Unsuitable extinguishing

media

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

Specific hazards arising from

Specific haza

During fire, gases hazardous to health may be formed.

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.

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

Fire fighting

equipment/instructions

Hazchem Code None.

General fire hazards Dried product residue can act as a reducing agent. Can decompose at elevated temperatures.

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

Material name: KODAK FLEXICOLOR LU DEVELOPER REPLENISHER

SDS AUSTRALIA

## 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapour. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. 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** Occupational exposure limits

Follow standard monitoring procedures. No exposure limits noted for ingredient(s).

**Biological limit values** 

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

**Exposure guidelines** 

No exposure standards allocated.

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)

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

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

Respiratory protection Thermal hazards

No personal respiratory protective equipment normally required. Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Observe any medical surveillance requirements. 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

Colour clear odorless Odour **Odour threshold** Not available.

pН

Melting point/freezing point Not available.

Initial boiling point and boiling

range

decomposes before boiling

Flash point does not flash **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

Not available. **Explosive limit - lower (%)** Not available. Explosive limit - upper

(%)

18 mm Hg Vapour pressure

0.6 Vapour density

Relative density Not available.

Solubility(ies)

Solubility (water) Complete **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature 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 May be corrosive to metals.

**Chemical stability** Stable in glass and plastic containers, however, becomes unstable in contact with metals.

> Decomposes on heating. Safe handling temperatures are dependent on specific conditions of use and are typically substantially below the onset temperature. Consult your technical safety experts.

Possibility of hazardous

Incompatible materials

reactions

Hazardous polymerisation does not occur.

Contact with incompatible materials. Conditions to avoid Acids. Halogenated materials. Metals. Strong oxidising agents.

Hazardous decomposition Ammonia. Nitrogen oxides (NOx). Sulphur oxides.

products

## 11. Toxicological information

# Information on possible routes of exposure

Inhalation Expected to be a low hazard for recommended handling. Skin contact Causes skin irritation. May cause an allergic skin reaction.

Causes serious eye irritation. Eye contact

Harmful if swallowed. Causes damage to organs by ingestion. Ingestion

Symptoms related to

exposure

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis. Rash.

Harmful if swallowed. Acute toxicity

Components **Species Test results** 

Bis(hydroxylammonium) sulphate (CAS 10039-54-0)

**Acute** Dermal

LD50 Guinea pig > 1000 mg/kg

Oral

Rat 100 - 200 mg/kg LD50

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation

Not a respiratory sensitizer. Respiratory sensitisation

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 Suspected of causing cancer.

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

Specific target organ toxicity - single exposure Causes damage to organs (blood system) by ingestion.

Specific target organ toxicity - repeated

exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability Readily biodegradable. No data available. Bioaccumulative potential

No data available for this product. Mobility in soil

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

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.

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

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

Disposal instructions).

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

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

disposal.

#### 14. Transport information

**ADG** 

3264 UN number

**UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Bis(hydroxylammonium) sulphate)

Transport hazard class(es)

Class 8 Subsidiary risk Ш **Packing group** 

**Environmental hazards** Not available.

**Hazchem Code** 2X Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

**UN** number

Corrosive liquid, acidic, inorganic, n.o.s. (Bis(hydroxylammonium) sulphate) **UN** proper shipping name

Transport hazard class(es)

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

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

Not established.

**IMDG** 

3264 **UN** number

**UN** proper shipping name

Transport hazard class(es)

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Bis(hydroxylammonium) sulphate)

Class 8 Subsidiary risk Ш Packing group

**Environmental hazards** 

Marine pollutant No. F-A, S-B **EmS** 

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

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

#### **ADG**



#### IATA; IMDG



## 15. Regulatory information

Safety, health and environmental regulations

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the **National regulations** 

preparation of Safety Data Sheets for Hazardous Chemicals (23/12/2011).

**High Volume Industrial Chemicals (HVIC)** 

Not listed.

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

Not listed

#### National Pollutant Inventory (NPI) substance reporting list

Inventory name

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

#### **International Inventories**

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<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).

#### 16. Other information

Issue date05-January-2017Revision date26-June-2018

**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.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

On inventory (yes/no)\*

Issue date: 05-January-2017 Revision date: 26-June-2018 Supersedes date: 05-January-2017 Version number: 03

# **Kodak** alaris

# SAFETY DATA SHEET

## 1. Identification

Product identifier KODAK FLEXICOLOR LU DEVELOPER REPLENISHER

Other means of identification

 Product code
 6601496C

 SDS No.
 PCD 6671

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

SupplierKodak Alaris Australia Pty LimitedAddressGround 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 3Skin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Specific target organ toxicity following single

exposure

Category 2 (kidney)

Category 1

Specific target organ toxicity following single

exposure

Category 3 respiratory tract irritation

Specific target organ toxicity following

repeated exposure

Sensitization, skin

Category 2 (kidney)

Environmental hazards

Not classified.

crossbones

# Label elements, including precautionary statements

Hazard symbol(s)



Signal word Danger

Hazard Statement(s) May be corrosive to metals. Toxic if swallowed. Causes skin irritation. May cause an allergic skin

hazard

reaction. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs (kidney). May cause damage to organs (kidney) through prolonged or repeated exposure.

**Precautionary Statement(s)** 

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

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face

protection. Wear protective gloves.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Rinse mouth. IF ON Response

SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Absorb spillage to prevent material damage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive

resistant container with a resistant inner liner.

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

Other hazards which do not result in classification

Can decompose at elevated temperatures. May liberate sulfur dioxide.

**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-hydroxyethyl)-2-methylphenylenediamine sulfate	25646-77-9	20 - 25
Sodium hydrogensulfite	7631-90-5	1 - 5

#### 4. First-aid measures

## Description of necessary first aid measures

Inhalation 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.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions. 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. Get medical attention if irritation develops and persists.

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting without Ingestion

advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device.

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

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Oedema. Prolonged exposure may cause chronic effects.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. 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). Use water spray to cool unopened containers.

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

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

equipment/instructions **Hazchem Code** 

None.

General fire hazards Can decompose at elevated temperatures. Use standard firefighting procedures and consider the hazards of other involved materials.

#### 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.

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into **Environmental precautions** 

drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Should not be released into the environment. 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 taste or swallow. Avoid contact with eyes, skin, and clothing. 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 Expos	ure Standards for Airborne	Contaminants	Annendiy A)
Australia. National Workplace OLLS	WOUNDIACE EXPOS	uit Stailualus IVI Alibuille	Contaminants,	Appelluix A)

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

Components Value **Type** Sodium hydrogensulfite **TWA** 5 mg/m3

(CAS 7631-90-5)

**Environment)** Components **Type** Value

Sodium hydrogensulfite **TWA** 5 mg/m3 (CAS 7631-90-5)

**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).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

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

Respiratory protection Chemical respirator with organic vapour cartridge and full facepiece.

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** Colour light yellow

strong sulphur dioxide Odour

Not available. **Odour threshold** 

< 3

Melting point/freezing point Not available. Initial boiling point and boiling > 100 °C (> 212 °F)

range

does not flash Flash point **Evaporation rate** Not available. Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Not available.

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Not available. Explosive limit - lower (%) Not available.

Explosive limit - upper

(%)

Vapour pressure Not available.

0.6 Vapour density

Not available. Relative density

Solubility(ies)

Complete Solubility (water) Not available. Partition coefficient

(n-octanol/water)

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

Other physical and chemical parameters

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

## 10. Stability and reactivity

Reacts violently with strong alkaline substances. This product may react with reducing agents. May Reactivity

be corrosive to metals.

Not available.

Material is stable under normal conditions. Decomposes on heating. **Chemical stability** 

Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

Contact with incompatible materials. Do not mix with other chemicals. Conditions to avoid

Strong oxidising agents. Acids. Metals. Contact with strong acids may liberate sulphur dioxide. Incompatible materials

Hazardous decomposition

products

Nitrogen oxides (NOx). Sulphur oxides.

# 11. Toxicological information

Information on possible routes of exposure

Expected to be a low hazard for recommended handling. Inhalation

Skin contact May cause sensitisation by skin contact.

Direct contact with eyes may cause temporary irritation. Eye contact

Harmful if swallowed. Ingestion

Symptoms related to

exposure

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an

allergic skin reaction. Dermatitis. Rash. Oedema.

**Acute toxicity** Toxic if swallowed.

Components **Species Test results** 

4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulfate (CAS 25646-77-9)

**Acute** 

**Dermal** 

LD50 Guinea pig > 2000 mg/kg

Inhalation

LC50 Rat > 0.164 mg/l, 6 hr

Oral

LD50 Rat 25 - 50 mg/kg Male, 30 mg/kg Female;

(target organs effects: kidney)

Sodium hydrogensulfite (CAS 7631-90-5)

**Acute** 

**Dermal** 

LD50 Rat 2000 mg/kg

Oral

LD50 Rat 2 g/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Carcinogenicity

**ACGIH Carcinogens** 

Sodium hydrogensulfite (CAS 7631-90-5) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium hydrogensulfite (CAS 7631-90-5) 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 (kidney). May cause respiratory irritation.

Specific target organ

toxicity - repeated

exposure

May cause damage to organs (kidney) through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful.

12. Ecological information

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

Persistence and degradability Readily biodegradable. Bioaccumulative potential No data available.

Material name: KODAK FLEXICOLOR LU DEVELOPER REPLENISHER

SDS AUSTRALIA

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

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow Disposal methods

this material to drain into sewers/water supplies. 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).

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

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

disposal.

## 14. Transport information

**ADG** 

**UN** number 2922

**UN** proper shipping name Transport hazard class(es) Corrosive liquid, toxic, n.o.s. (4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulfate)

Class

6.1(PGI, II) Subsidiary risk

Packing group

**Environmental hazards** Not available.

Hazchem Code

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

**IATA** 

**UN** number

**UN proper shipping name** Transport hazard class(es) Corrosive liquid, toxic, n.o.s. (4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulfate)

Class 8

6.1(PGIII) Subsidiary risk Packing group Ш **Environmental hazards** Nο

۸P **ERG Code** 

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

**UN** number

**UN** proper shipping name

CORROSIVE LIQUID, TOXIC, N.O.S. (4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine

sulfate)

Transport hazard class(es)

Class 8

6.1(PGIII) Subsidiary risk Packing group Ш

**Environmental hazards** 

Marine pollutant MARINE POLLUTANT

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

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

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

Material name: KODAK FLEXICOLOR LU DEVELOPER REPLENISHER

SDS AUSTRALIA

#### **ADG**



# IATA; IMDG



# 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 25646-77-9)

## Australia Medicines & Poisons Appendix F

PHENYLENEDIAMINES INCLUDING BOTH ALKYLATED, ARYLATED AND NITRO DERIVATIVE (CAS 25646-77-9)

# Australia Medicines & Poisons Schedule 6

PHENYLENEDIAMINES INCLUDING ALKYLATED, ARYLATED, AND NITRO DERIVATIVES NOT ELSEWHERE SPECIFIED IN THESE SCHEDULES (CAS 25646-77-9)

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

Not listed.

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

## 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	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<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).

#### 16. Other information

**Issue date** 05-January-2017 **Revision date** 26-June-2018

**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

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.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

 ${\it Material\ name:\ KODAK\ FLEXICOLOR\ LU\ DEVELOPER\ REPLENISHER}$ 

On inventory (yes/no)\*