Issue date: 02-October-2017 Revision date: 03-July-2018 Supersedes date: 16-March-2018 Version number: 03

# **SAFETY DATA SHEET**

# **Kodak** alaris

#### 1. Identification

Product identifier Kodak Flexicolor Developer Replenisher

Other means of identification

 Product code
 3667805B

 SDS No.
 PCD F1584

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 hazards** Corrosive to metals Category 1 **Health hazards** Acute toxicity, oral Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2 Sensitization, skin Category 1 Carcinogenicity Category 2 Specific target organ toxicity following single Category 1

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 skin irritation. May cause an allergic

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

organs.

**Precautionary Statement(s)** 

**Prevention** Obtain special instructions before use. Keep only in original container. Do not breathe mist or

vapour. Wash thoroughly after handling. Wear eye protection/face protection. Wear protective

gloves. Use personal protective equipment as required.

ResponseNot available.StorageNot available.DisposalNot available.

Other hazards which do not

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

result in classification

# 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 - < 20

#### 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. Flush with plenty of water. 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. 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

General fire hazards

None.

General fire hazards
Specific methods

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

**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. 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** Follow standard monitoring procedures. Occupational exposure limits

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. Ensure adequate ventilation, especially in confined areas. 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

Chemical resistant gloves.

Other

Avoid exposure - obtain special instructions before use. Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. Use of an impervious apron is recommended. It may provide little or no thermal protection. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

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. When using, do not eat, drink or smoke. Do not get this material on clothing. 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** 

Liquid. Physical state **Form** Liquid. colourless Colour Odour odorless **Odour threshold** Not available.

pН

Not available. Melting point/freezing point 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

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

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

(%)

Vapour pressure 18 mm Hg Vapour density Not available. 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

Specific gravity 1.06

# 10. Stability and reactivity

Reactivity May be corrosive to metals. The product is stable and non-reactive under normal conditions of

use, storage and transport.

Material is stable under normal conditions. **Chemical stability** Possibility of hazardous Hazardous polymerisation does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

Acids. Halogenated materials. Strong oxidising agents. Metals. Contact with strong bases may Incompatible materials

liberate ammonia.

Hazardous decomposition

products

Carbon oxides. Nitrogen oxides (NOx). Sulphur oxides. Ammonia.

#### 11. Toxicological information

#### Information on possible routes of exposure

Inhalation May cause damage to organs by 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

Ingestion Harmful if swallowed.

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.

**Acute toxicity** Harmful if swallowed. Components **Species Test results** 

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

Acute

**Dermal** 

LD50 Guinea pig > 1000 mg/kg

Oral

LD50 Rat 100 - 200 mg/kg

Skin corrosion/irritation Causes skin irritation.

Causes serious eye irritation. Serious eye damage/irritation

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 Suspected of causing cancer.

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

Specific target organ toxicity - single exposure Causes damage to organs.

Specific target organ toxicity - repeated

exposure

Not classified.

Not an aspiration hazard. **Aspiration hazard** 

# 12. Ecological information

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

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

Persistence and degradability Readily biodegradable. **Bioaccumulative potential** 

No data available.

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.

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 Transport hazard class(es) Corrosive liquid, acidic, inorganic, n.o.s.

8 Class Subsidiary risk **Packing group** Ш

**Environmental hazards** Not available.

2X **Hazchem Code** 

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

**IATA** 

**UN** number 3264 **UN** proper shipping name

Corrosive liquid, acidic, inorganic, n.o.s. (Bis(hydroxylammonium) sulphate)

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

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)

8 Class 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

**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).

**High Volume Industrial Chemicals (HVIC)** 

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

#### International Inventories

Australian Inventory of Chemical Substances (AICS)	Yes
Domestic Substances List (DSL)	Yes
Non-Domestic Substances List (NDSL)	No
Inventory of Existing Chemical Substances in China (IECSC)	Yes
European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
European List of Notified Chemical Substances (ELINCS)	No
Inventory of Existing and New Chemical Substances (ENCS)	Yes
Existing Chemicals List (ECL)	Yes
New Zealand Inventory	Yes
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
	Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL) New Zealand Inventory Philippine Inventory of Chemicals and Chemical Substances

<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).

Toxic Substances Control Act (TSCA) Inventory

# 16. Other information

United States & Puerto Rico

Issue date02-October-2017Revision date03-July-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** Regulatory Information: United States

Inventory name

On inventory (yes/no)\*

Yes