Issue date: 09-January-2017 Revision date: 17-December-2018 Supersedes date: 27-February-2018

Version number: 06

SAFETY DATA SHEET

Kodak alaris

1. Identification

Product identifier KODAK FLEXICOLOR Fixer and Replenisher

Other means of identification

 Product code
 6600027

 SDS No.
 PCD 5542

Recommended use of the chemical and restrictions on use

Recommended use Photographic processing chemical. (fixer).

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 (02) 90372994

number

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Acute toxicity, oral

Environmental hazards Not classified.

Category 4

Label elements, including precautionary statements

Hazard symbol(s)



Exclamation mark

Signal word Warning

Hazard statement(s) Harmful if swallowed.

Precautionary statement(s)

Prevention Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

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

Storage Store away from incompatible materials.

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
Ammonium thiosulphate	7783-18-8	50 - 55
Sodium hydrogensulfite	7631-90-5	1 - 5

Sodium sulphite 7757-83-7 1 - 5

4. First-aid measures

Description of necessary first aid measures

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

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. 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

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.

Symptoms caused by exposure

Medical attention and special treatment

Direct contact with eyes may cause temporary irritation. 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. Dry chemicals. Carbon dioxide (CO2). Foam.

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 No unusual fire or explosion hazards noted.

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. Ensure adequate ventilation. Local

authorities should be advised if significant spillages cannot be contained.

For emergency responders

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

Environmental precautions

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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

7. Handling and storage

Precautions for safe handling

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 in original tightly closed container.

8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workblace CELS (Workblace Exposure Standards for Airporne Contaminants, Appendix	ustralia. National Workplace OELs (Workplace Exposure Standards	s for Airborne Contaminants	. Appendix A)
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Components Type Value Sodium hydrogensulfite **TWA** 5 mg/m3 (CAS 7631-90-5)

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

Environment)

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

US. ACGIH Threshold Limit Values

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

UK. EH40 Workplace Exposure Limits (WELs)

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

No biological exposure limits noted for the ingredient(s). **Biological limit values**

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.

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.

Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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

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. light yellow Colour Odour odorless **Odour threshold** Not available.

pН

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

range

Not available. Flash point Not available. **Evaporation rate** 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 (%) Explosive limit - upper Not available.

(%)

Vapour pressure 18 mm Hg

Vapour density 0.6 1.36 Relative density

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

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

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability** Hazardous polymerisation can occur.

Possibility of hazardous

reactions

Contact with incompatible materials. Conditions to avoid

Strong oxidising agents. Acids. Strong bases. Sodium hypochlorite (bleach). Halogenated Incompatible materials

materials. Contact with strong acids may liberate sulphur dioxide. Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas). Contact with base liberates flammable

material. Contact with base liberates ammonia.

Hazardous decomposition

products

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

11. Toxicological information

Information on possible routes of exposure

Inhalation Expected to be a low hazard for recommended handling. Skin contact No adverse effects due to skin contact are expected. Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Harmful if swallowed.

Symptoms related to exposure Direct contact with eyes may cause temporary irritation.

Acute toxicity Harmful if swallowed.

Components **Species Test Results**

Sodium hydrogensulfite (CAS 7631-90-5)

Acute Oral

LD50 Rat 2 q/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation This product is not expected to cause 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

TRADE SECRET (CAS Proprietary) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

TRADE SECRET (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.

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

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

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 Not 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.

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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

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 A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

TRADE SECRET (CAS Proprietary)

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated. **Australia Medicines & Poisons Appendix G**

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

TRADE SECRET (CAS Proprietary)

10000 - 99999 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)

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

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)

Country(s) or region	Inventory name	On inventory (yes/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)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}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

09-January-2017 Issue date **Revision date** 17-December-2018

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

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.

Product and Company Identification: Product and Company Identification **Revision information**

Identification: Restrictions on use

Composition / Information on Ingredients: Ingredients

Accidental release measures: Methods and materials for containment and cleaning up

Exposure controls and personal protection: Hand protection Stability and reactivity: Possibility of hazardous reactions

Toxicological information: Ingestion Toxicological information: Inhalation

Material name: KODAK FLEXICOLOR Fixer and Replenisher

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SDS AUSTRALIA