Issue date: 01-April-2016 Revision date: 14-March-2018 Supersedes date: 28-March-2017 Version number: 02

SAFETY DATA SHEET

Kodak alaris

1. Identification

Product identifier KODAK Rapid Fixer

Other means of identification

 Product code
 1973247

 SDS No.
 PCD 4896

Recommended use of the chemical and restrictions on use

Recommended use Photographic processing chemical. (fixer). For industrial use only.

Restrictions on use Not available.

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 Not classified.

Health hazardsSkin corrosion/irritationCategory 2Serious eye damage/eye irritationCategory 2A

Reproductive toxicity

Category 1B

Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s)



Health Exclamation hazard mark

Signal word Danger

Hazard Statement(s) Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child.

Precautionary Statement(s)

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

and understood. Wash thoroughly after handling. Wear eye protection/face protection. Wear

protective gloves. Use personal protective equipment as required.

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

before reuse.

Storage Store locked up.

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

Other hazards which do not result in classification

Dried product residue can act as a reducing agent.

Supplemental information None.

Material name: KODAK Rapid Fixer

3. Composition/information on ingredients

Mixture

CAS number and other unique identifiers	Concentration of ingredients
7783-18-8	40 - 45
64-19-7	1 - 5
10196-04-0	1 - 5
10043-35-3	1 - 5
	unique identifiers 7783-18-8 64-19-7 10196-04-0

Other components below reportable levels

4. First-aid measures

Description of necessary first aid measures

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

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

medical advice/attention. 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.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

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.

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

vision. 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 fighting

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

equipment/instructions

Hazchem Code

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. 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.

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SDS AUSTRALIA

Methods and materials for containment and cleaning up 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. 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. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. 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 original tightly closed 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	
Acetic acid (CAS 64-19-7)	STEL	37 mg/m3	
		15 ppm	
	TWA	25 mg/m3	
		10 nnm	

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

Environment)

Components	Туре	Value	
Acetic acid (CAS 64-19-7)	STEL	37 mg/m3	
		15 ppm	
	TWA	25 mg/m3	
		10 ppm	

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 protective gloves.

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

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Observe any medical surveillance requirements. 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. Liquid. Form Colour Light yellow.

Odour slight sulphur, slight acetic acid

Material name: KODAK Rapid Fixer

Odour threshold Not available.

pH

Melting point/freezing point Not available.

Initial boiling point and boiling > 100 °C (> 212 °F)

range

does not flash

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 pressure24 hPaVapour density0.6Relative density1.32

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.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

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

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

with base liberates ammonia.

Hazardous decomposition

products

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

11. Toxicological information

Information on possible routes of exposure

Inhalation Prolonged inhalation may be harmful. Some asthmatics or hypersensitive individuals may

experience difficult breathing after inhaling sulfite salts.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion May be harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may experience

wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.

Symptoms related to

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

exposure vision. Skin irritation. May cause redness and pain.

Test results Components **Species** Acetic acid (CAS 64-19-7) **Acute Dermal** LD50 Rabbit 1060 mg/kg Inhalation LC50 Rat 11.4 mg/l, 4 Hours Oral LD50 Rat 3320 mg/kg Boric acid (CAS 10043-35-3) Acute **Dermal** LD50 Rabbit > 2000 mg/kg Inhalation LC50 Rat > 0.002 mg/l, 4 Hours Oral LD50 Rat > 1600 mg/kg Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Causes serious eve irritation. Respiratory or skin sensitisation Respiratory sensitisation Not a respiratory sensitizer. This product is not expected to cause skin sensitisation. Skin sensitisation Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity **ACGIH Carcinogens** Boric acid (CAS 10043-35-3) A4 Not classifiable as a human carcinogen. May damage fertility or the unborn child. Reproductive toxicity Specific target organ Not classified. toxicity - single exposure Specific target organ Not classified. toxicity - repeated exposure Not an aspiration hazard. **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.

Components **Species Test results**

Boric acid (CAS 10043-35-3)

Aquatic

LC50 Fish Razorback sucker (Xyrauchen texanus) > 100 mg/l, 96 hours

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

Bioaccumulative potential Partition coefficient

n-octanol / water (log Kow)

Acetic acid -0.17

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.

Material name: KODAK Rapid Fixer SDS AUSTRALIA

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 Annex II of MARPOL 73/78 and

Not established.

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 E

ACETIC ACID (CAS 64-19-7) Boric acid (CAS 10043-35-3)

Australia Medicines & Poisons Appendix F

ACETIC ACID (CAS 64-19-7)

Australia Medicines & Poisons Schedule 2

ACETIC ACID (EXCLUDING ITS SALTS AND DERIVATIVES) (CH3COOH) (CAS 64-19-7)

Australia Medicines & Poisons Schedule 5

ACETIC ACID (EXCLUDING ITS SALTS AND DERIVATIVES) (CH3COOH) (CAS 64-19-7)

BORIC ACID (EXCLUDING ITS SALTS) AND BORAX (CAS 10043-35-3)

Australia Medicines & Poisons Schedule 6

ACETIC ACID (EXCLUDING ITS SALTS AND DERIVATIVES) (CH3COOH) (CAS 64-19-7)

Australia National Pollutant Inventory (NPI): Threshold quantity

Acetic acid (CAS 64-19-7) 10 TONNES/YR Threshold Category: 1
Boric acid (CAS 10043-35-3) 10 TONNES/YR Threshold Category: 1

High Volume Industrial Chemicals (HVIC)

Acetic acid (CAS 64-19-7) 1000 - 9999 TONNES See the regulation for additional

information.

Boric acid (CAS 10043-35-3) 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.

Material name: KODAK Rapid Fixer SDS AUSTRALIA

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

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

^{*}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

United States & Puerto Rico

01-April-2016 Issue date **Revision date** 14-March-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.

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

Toxic Substances Control Act (TSCA) Inventory

Material name: KODAK Rapid Fixer

On inventory (yes/no)*

Yes