Issue date: 27-July-2016 Revision date: 19-September-2018 Supersedes date: 30-July-2018 Version number: 06

SAFETY DATA SHEET

Kodak alaris

1. Identification

Product identifier D76 Developer

Other means of identification

Product code 5160304 PCD 5239 SDS No.

Recommended use of the chemical and restrictions on use

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

Not available. Restrictions on use

Details of manufacturer or importer

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

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 hazards Acute toxicity, oral Category 4

> Serious eye damage/eye irritation Category 1 Sensitization, skin Category 1 Germ cell mutagenicity Category 2 Carcinogenicity Category 2 Specific target organ toxicity following Category 2

repeated exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Label elements, including precautionary statements

Hazard symbol(s)



hazard

Signal word Danger

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Hazard statement(s) Suspected of causing genetic defects. Suspected of causing cancer. May cause damage to

organs through prolonged or repeated exposure. Very toxic to aquatic life.

Precautionary statement(s)

Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapours/spray. Wash Prevention

thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to

the environment.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Response

and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.

Storage Store locked up.

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

Material name: D76 Developer 1/8 2372

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
Sodium sulphite	7757-83-7	85 - 90
Bis(4-hydroxy-N-methylanilinium) sulphate	55-55-0	1 - 5
Hydroquinone	123-31-9	1 - 5

4. First-aid measures

Description of necessary first aid measures

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

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.

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 immediately.

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. Permanent eye damage including blindness could result. May cause an allergic skin reaction. Dermatitis. Rash. 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

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

Use water spray to cool unopened containers.

Hazchem code 2Z

General fire hazards No unusual fire or explosion hazards noted.

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

SDS.

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Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

Prevent product from entering drains.

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. Put material in suitable, covered, labeled containers.

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 get this material in contact with eyes. Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Store in original tightly closed container.

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
Hydroquinone (CAS 123-31-9)	TWA	2 mg/m3

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

Environment)

Components **Type** Value Hydroquinone (CAS TWA 2 mg/m3 123-31-9)

US. ACGIH Threshold Limit Values

Components	Туре	Value
Hydroquinone (CAS	TWA	1 mg/m3

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Hydroquinone (CAS 123-31-9)	TWA	0.5 mg/m3

Biological limit values

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

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide evewash station.

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

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

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. In case of insufficient ventilation, wear suitable respiratory equipment.

Material name: D76 Developer 2372 3/8 Thermal hazards 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 Solid.

Solid. powder **Form** Colour Off-white Odour odorless **Odour threshold** Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

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

Flammability limit - lower

(%)

Not available.

Not available.

Flammability limit - upper

(%)

Explosive limit - lower (%) Explosive limit - upper

Not available. Not available.

(%)

Not available. Vapour pressure Vapour density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Appreciable Not available. Partition coefficient

(n-octanol/water)

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

Other physical and chemical parameters

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

10. Stability and reactivity

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

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.

Acids. Contact with strong acids may liberate sulphur dioxide. Incompatible materials

Hazardous decomposition

products

Sulphur oxides.

Material name: D76 Developer SDS AUSTRALIA

11. Toxicological information

Information on possible routes of exposure

Prolonged inhalation may be harmful. In contact with strong acids or if heated, sulphites may Inhalation

liberate sulphur dioxide gas. Sulphur dioxide gas is irritating to the respiratory tract. Some

asthmatics or hypersensitive individuals may experience difficulty breathing.

May cause an allergic skin reaction. Skin contact

Causes serious eye damage. Eye contact

Harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed. Some asthmatics Ingestion

or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives,

faintness, weakness and diarrhea.

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

vision. Permanent eye damage including blindness could result. May cause an allergic skin

reaction. Dermatitis. Rash.

Acute toxicity Harmful if swallowed.

Species Test Results Components

Hydroquinone (CAS 123-31-9)

Acute

Oral

LD50 Rat 320 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation

ACGIH sensitisation

Hydroquinone (CAS Proprietary) Dermal sensitization

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity Suspected of causing genetic defects.

Suspected of causing cancer. Carcinogenicity

ACGIH Carcinogens

TRADE SECRET (CAS Proprietary) A3 Confirmed animal carcinogen with unknown relevance to

humans.

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.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs 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

Ecotoxicity Very toxic to aquatic life.

Components Species **Test Results**

Hydroquinone (CAS 123-31-9)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 0.12 - 0.15 mg/l, 48 hours

Fish LC50 Rainbow trout, donaldson trout 0.044 mg/l, 96 hours

(Oncorhynchus mykiss)

Readily biodegradable. Persistence and degradability

Bioaccumulative potential

Material name: D76 Developer SDS AUSTRALIA 2372

Partition coefficient n-octanol / water (log Kow)

Hydroquinone 0.59

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. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. 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

UN number 3077

UN proper shipping name

Environmentally hazardous substance, solid, n.o.s. (Hydroguinone)

Transport hazard class(es)

Class 9 Subsidiary risk Ш **Packing group**

Not available. **Environmental hazards**

Hazchem code 27

Special precautions for user Not available.

IATA

UN number

UN proper shipping name Transport hazard class(es)

Environmentally hazardous substance, solid, n.o.s. (Hydroquinone)

Class 9 Subsidiary risk Ш Packing group **Environmental hazards** Nο **ERG Code** 91

Special precautions for user Not available.

Other information

Passenger and cargo aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. **UN** proper shipping name

(Hydroquinone)Hydroquinone)

Transport hazard class(es)

Class 9 Subsidiary risk Ш **Packing group**

Environmental hazards

Marine pollutant MARINE POLLUTANT

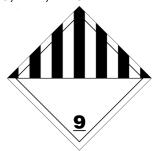
F-A. S-F Special precautions for user Not available.

Hydroquinone

Material name: D76 Developer SDS AUSTRALIA Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

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 A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

TRADE SECRET (CAS Proprietary)

Australia Medicines & Poisons Appendix F

TRADE SECRET (CAS Proprietary)

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

TRADE SECRET (CAS Proprietary)

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

TRADE SECRET (CAS Proprietary)

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

TRADE SECRET (CAS Proprietary)

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

information.

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

odulitiy(3) of region	inventory name	yesille)
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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered by the governing country(s)	

^{*}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 27-July-2016
Revision date 27-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: Other

Material name: D76 Developer SDS AUSTRALIA

On inventory (yes/no)*