Issue date: 04-January-2017 Revision date: 05-July-2018 Supersedes date: 16-March-2018 Version number: 04

SAFETY DATA SHEET

Kodak alaris

1. Identification

Product identifier KODAK XTOL Developer

Other means of identification

 Product code
 5160361A

 SDS No.
 PCD 8008

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 Not classified.

Health hazardsAcute toxicity, oralCategory 4Acute toxicity, dermalCategory 4Acute toxicity, inhalationCategory 4

Serious eye damage/eye irritation Category 2A
Sensitization, skin Category 1
Reproductive toxicity Category 2

Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s)



Health Exclamation hazard mark

Signal word Warning

Hazard Statement(s) Harmful if swallowed. Harmful in contact with skin. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. Suspected of damaging 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. Avoid breathing dust. 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/protective clothing. Use personal protective equipment as required.

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

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. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTRE or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get

medical advice/attention. Wash contaminated clothing before reuse.

Storage Store locked up.

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

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	90 - 95
Pentetic acid, pentasodium salt	140-01-2	1 - 5
Sodium tetraborate, pentahydrate	12179-04-3	1 - 5

4. First-aid measures

Description of necessary first aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or Inhalation

artificial respiration if needed. Call a POISON CENTRE or doctor/physician if you feel unwell. If

symptoms develop move victim to fresh air. Get medical attention if symptoms occur.

Remove contaminated clothing immediately and wash skin with soap and water. Get medical Skin contact advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical

attention and take along these instructions. Wash contaminated clothing before reuse.

Immediately flush with plenty of water for at least 15 minutes and wash using soap. Get medical

attention if symptoms occur.

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Continue

rinsing. Get medical attention if irritation develops and persists. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present

and easy to do.

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. Do not induce vomiting. Drink water as a

precaution.

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.

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

vision. May cause an allergic skin reaction. Dermatitis. Rash. Not available.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. Not available.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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

Not available.

Special protective equipment and precautions for fire fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

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Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

Hazchem Code

None.

General fire hazards Specific methods No unusual fire or explosion hazards noted. 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. Avoid inhalation of dust. 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

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. 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. Minimise dust generation and accumulation. Do not taste or swallow. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. 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 Type Value

Sodium tetraborate, pentahydrate (CAS 12179-04-3) TWA 1 mg/m3

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

Environment)

Components Type Value

Sodium tetraborate, pentahydrate (CAS 12179-04-3) TWA 1 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

exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

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

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

Skin protection

Hand protection Suitable gloves can be recommended by the glove supplier.

Wear appropriate chemical resistant gloves.

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

In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do Respiratory protection 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. No personal respiratory protective equipment normally required.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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

Solid. **Physical state**

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

range

Flash point

Not available.

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

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Explosive limit - lower (%) Not available.

Not available.

Explosive limit - upper

(%)

Not available.

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

Solubility(ies)

Complete Solubility (water) 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.

10. Stability and reactivity

Reactivity The 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.

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

Hazardous decomposition

products

Sulphur oxides.

11. Toxicological information

Information on possible routes of exposure

Inhalation Harmful if inhaled. 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.

Harmful in contact with skin. May cause an allergic skin reaction. Skin contact

Causes serious eye irritation. Eye contact

Harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may experience wheezing, Ingestion

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. May cause an allergic skin reaction. Dermatitis. Rash.

Acute toxicity Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.

Test results Components Species

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

Oral

LD50 3200 mg/kg

Sodium tetraborate, pentahydrate (CAS 12179-04-3)

Acute Dermal

LD50 Rabbit > 1055 mg/kg

Inhalation

Rat LC50 > 0.002 mg/l, 4 Hours

Oral

LD50 Rat 2660 mg/kg

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

Causes serious eye irritation. Serious eye damage/irritation

Respiratory or skin sensitisation

Not a respiratory sensitizer. Respiratory sensitisation

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 tetraborate, pentahydrate (CAS 12179-04-3) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium sulphite (CAS 7757-83-7) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ

toxicity - single exposure

Not classified.

Specific target organ

toxicity - repeated exposure

Not classified.

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Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Components Species Test results

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

Aquatic

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

Sodium tetraborate, pentahydrate (CAS 12179-04-3)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 104 mg/l, 96 hours

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 applicable.

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 National Pollutant Inventory (NPI): Threshold quantity

Sodium tetraborate, pentahydrate (CAS 12179-04-3) 10 TONNES/YR Threshold Category: 1

High Volume Industrial Chemicals (HVIC)

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

information.

Sodium sulphite (CAS 7757-83-7) 10000 - 99999 TONNES See the regulation for additional

information.

Sodium tetraborate, pentahydrate (CAS 12179-04-3) 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.

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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.

Country(s) or region

Inventory name

International Inventories

Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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)	No
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).

Toxic Substances Control Act (TSCA) Inventory

16. Other information

United States & Puerto Rico

Issue date 04-January-2017 **Revision date** 05-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 GHS: Qualifiers

Material name: KODAK XTOL Developer

On inventory (yes/no)*

No