Carestream

SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product code: 4985420

Product name: X-OMAT Developer Starter
KODAK X-OMAT Developer Starter

Pure substance/mixture Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use: Photographic chemical Restricted to professional users

Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

Supplier: Carestream Health New Zealand Ltd, Guthrey Pacific House, Level 1, 93 Manchester Street, Christchurch, New Zealand

For further information, please contact:

E-mail Address For environment, health and safety information, email: EMEAEHS@carestream.com

1.4 Emergency telephone number

+1(703)527-3887

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classified as non-hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Not classified as dangerous according to Regulation 1272/2008.

2.2 Label Elements

Not classified as dangerous according to Regulation 1272/2008.

This material is not classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

2.3 Other information

May cause central nervous system depression.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification
Sodium bromide	Present	7647-15-6	10-15	

Non-Hazardous

Chemical Name	EC-No	CAS-No	Weight %	EU - GHS Substance Classification
Water	Present	7732-18-5	80-90	

For the full text of the R-phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if irritation persists.

Skin contact Wash off immediately with plenty of water. If skin irritation persists, call a physician.

Ingestion Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Inhalation Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms None known.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Extinguishing media which shall not be used for safety reasons
None

5.2 Special hazards arising from the substance or mixture

Special Hazard
Thermal decomposition can lead to release of irritating gases and vapors

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear

Hazchem Code
No information available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes. For personal protection see section 8.

See Section 12 for additional information.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13).

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure adequate ventilation. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place.

7.3 Specific end uses

Exposure scenario No information available

8.1 Control parameters

Exposure limits Contains no substances with occupational exposure limit values

Biological standards

8.2 Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection	Safety glasses with side-shields.
Hand Protection	Chemical resistant gloves. Avoid natural rubber gloves.
Skin and body protection	Long sleeved clothing.
Respiratory protection	None under normal use conditions.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid		
Appearance	Colorless, Liquid	**Odor**	Odorless
Color	colorless	**Odor Threshold**	No information available

Property	**Values**	**Remarks/ - Method**
ph	6.6	No information available

Melting point/range:		No information available
Freezing Point:		No information available
Boiling point/boiling range	> 100 °C / >212 °F	No information available
Flash Point	> 93.400 °C	No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available
Vapor pressure	24 mbar @ 20 °C	No information available
Vapor density	0.6	No information available
Relative density	1.106	No information available
Water Solubility	completely soluble	No information available
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity:		No information available
Explosive properties	No information available	
Oxidizing Properties	No information available	

9.2 Other information

Softening point No information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None under normal processing

10.4 Conditions to Avoid

Heat.

10.5 Incompatible Materials

None under normal processing.

10.6 Hazardous Decomposition Products

Hydrogen bromide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Product Information

Inhalation May cause irritation of respiratory tract.

Eye contact May cause slight irritation.

Skin contact None known.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium bromide	3400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	

Chronic toxicity

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen

Sensitization No information available.

Target Organ Effects Gastrointestinal tract (GI). Central nervous system.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium bromide	5800 - 24000 mg/L EC50 96 h (Scenedesmus pannonicus)	LC50 24000 - 96000 mg/L Oryzias latipes 96 h LC50= 24000 mg/L Oryzias latipes 96 h LC50 16000 - 24000 mg/L Poecilia reticulata 96 h LC50= 16000 mg/L Poecilia reticulata 96 h LC50 15614 - 17428 mg/L Pimephales promelas 96 h LC50> 1000 mg/L Lepomis macrochirus 96 h LC50 0.054 - 0.081 mg/L Oncorhynchus mykiss 96 h LC50> 1000 mg/L Oncorhynchus mykiss 96 h	EC50 5800 - 48000 mg/L 48 h (Daphnia magna) EC50 5700 - 10800 mg/L 48 h (Daphnia magna)

12.2 Persistence and degradability

Not readily biodegradable

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations.

Contaminated packaging Do not re-use empty containers. Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

ADG Not classified as a dangerous goods.

ICAO/IATA Not regulated

IMDG/IMO Not regulated

For transportation information, go to: http://ship.carestreamhealth.com.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

EINECS/ELINCS	Complies
TSCA	Complies
DSL/NDSL	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

16. OTHER INFORMATION

Revision Date 2013-09-18

Revision Note

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.