

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKINGIdentification of the substance or mixture

Product name: X-OMAT Developer Starter
Product code: 4985420
Pure substance/mixture Mixture

Use of the Substance/Mixture

Product Use: Photographic chemical, Restricted to professional users.

Company/Undertaking Identification

Supplier: Carestream Health (Thailand) Company Limited
No. 89/1 Kasemsap Building, Moo 14, Vibhavadee-Rangsit Road, Jomphol Sub-district,
Chatuchak District, Bangkok 10900

Manufacturer: Kodak (Wuxi) Company Ltd,
No. 18, Changjiang Road,
Wuxi, JiangSu Province,
China 214028

For further information, please contact:

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

Emergency telephone

001-800-13-203-9987

2. HAZARDS IDENTIFICATIONClassification of the substance or mixture

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

GHS Label elements, including precautionary statements

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

Other hazards which do not result in classification

May cause central nervous system depression.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %
Water	80-90

Sodium bromide	10-15
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4. FIRST AID MEASURES

Description of necessary first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Main Symptoms	None known.
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.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms/effects, acute and delayed

Skin contact	None known.
Eye contact	May cause slight irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Extinguishing media which shall not be used for safety reasons	None.
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Specific hazards arising from the chemical

Special Hazard	Thermal decomposition can lead to release of irritating gases and vapors.
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Special protective actions for fire-fighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other information

Other information

Keep containers and surroundings cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Advice for emergency responders

For personal protection see section 8

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Contain spillage, and then collect 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).

Other information

See Section 12 for additional Ecological information.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

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

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep tightly closed in a dry and cool place.

Materials to Avoid

Strong oxidizing agents. Strong acids. Metal salts.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological standards

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment (PPE)

Personal Protective Equipment

General Information	These recommendations apply to the product as supplied.
Respiratory protection	None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Eye Protection	Safety glasses with side-shields
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots.
Hand Protection	Chemical resistant gloves. Avoid natural rubber gloves.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid	Odor Odorless
ph 6.6	Color colorless
Flash point: > 93.400 °C	Autoignition temperature: No information available
Boiling point/boiling range > 100 °C / >212 °F	
Vapor Pressure 24 mbar @ 20 °C	
Vapor density 0.6	
Density No information available	
Water Solubility completely soluble	
Melting point/range: No information available	
Specific Gravity 1.106	
Bulk Density: No information available	

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat.

Materials to Avoid

Strong oxidizing agents. Strong acids. Metal salts.

Hazardous Decomposition Products

Hydrogen bromide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Product Information.

Skin contact	None known.
Eye contact	May cause slight irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system effects.
Unknown acute toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity
Oral	27174 mg/kg
Dermal	>2000 mg/kg
Inhalation	
Gas	No information available
Mist	No information available
Vapor	No information available

Acute toxicity - Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	90,000 mg/kg (Rat)		
Sodium bromide	3400 mg/kg (Rat) Oral LD50 Rat 3400 mg/kg (Source: IUCLID)	> 2000 mg/kg (Rabbit)	
Chemical Name	Other applicable information		
Sodium bromide	Ingestion of bromide salts can cause nausea, vomiting, headache, irritability, delirium, memory loss, decreased appetite, joint pain, hallucinations, stupor, coma, and acne like rash on face, legs, and trunk.		

Aggravated Medical Conditions None known.

Subchronic toxicity

no data available

Chronic toxicity

Chronic toxicity	Effects expected to be similar to those seen acutely.
Sensitization	No information available.
Neurological effects	No information available.
Target Organ Effects	Gastrointestinal tract (GI), Central nervous system.

CMR Effects

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Acute aquatic toxicity Product Information

No information available

Acute aquatic toxicity Component Information

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

Persistence and degradability

Not readily biodegradable

Bioaccumulative potential

No information available

Mobility in soil

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

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.

ADR/RID

Not regulated

IMDG/IMO

Not regulated

<u>ICAO/IATA</u>	Not regulated
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<u>ADN</u>	Not regulated
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<u>TDG</u>	Not regulated
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For transportation information, go to: <http://ship.carestream.com>

15. REGULATORY INFORMATION

International Inventories

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

Legend

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

16. OTHER INFORMATION

Revision Date	2014-05-27
Revision Note	(M)SDS sections updated

Disclaimer

The information provided on this MSDS 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

End of Safety Data Sheet