

#### **SAFETY DATA SHEET**

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

## Identification of the substance or mixture

Product name: X-OMAT ICM F-1 Fixer and Replenisher, Part B

KODAK X-OMAT ICM F-1 Fixer and Replenisher, Part B

Product code: 6610182B

Use of the Substance/Mixture

Product Use: Photographic chemical, Restricted to professional users.

Company/Undertaking Identification

Supplier Carestream Health Japan Co., Ltd., 2-27-1 Shinkawa, Chuo-ku, Tokyo, Japan

#### For further information, please contact:

For environment, health and safety information, email: WW-EHS@carestreamhealth.com

Emergency telephone

Emergency telephone +(81)-345209637

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Serious eye damage/eye irritation	Category 1
Corrosive to Metals	Category 1

GHS Label elements, including precautionary statements



#### **DANGER**

### **Hazard statements**

H318 - Causes serious eye damage H290 - May be corrosive to metals Product code: 6610182B Revision Date 2013-11-01

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### **Precautionary Statements**

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P334 - Immerse in cool water/ wrap in wet bandages P390 - Absorb spillage to prevent material damage

P406 - Store in corrosive resistant container with a resistant inliner

### Other hazards which do not result in classification

#### **General Hazards**

No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Weight %
Water	85 - 90
Aluminum sulfate	10 - 15

### 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.

Eye contact Immediate medical attention is required. Immediately flush with plenty of water. After initial

flushing, remove any contact lenses and continue flushing for at least 15 minutes.

**Skin contact** Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use. Get medical attention immediately if symptoms occur.

Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention immediately if symptoms occur.

**Ingestion** If swallowed, do not induce vomiting - seek medical advice.

## Most important symptoms/effects, acute and delayed

**Skin contact** May cause skin irritation and/or dermatitis.

**Eye contact** Risk of serious damage to eyes.

**Inhalation** May cause irritation of respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### 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.

Extinguishing media which shall not be used for safety

reasons

None.

Specific hazards arising from the chemical

Special Hazard Non-combustible.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

Other information

Other information None known.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with eyes.

### Advice for emergency responders

For personal protection see section 8

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system.

#### Methods and materials 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). Clean contaminated surface thoroughly.

### Other information

See Section 12 for additional Ecological information.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage, including any incompatibilities

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Technical measures/Storage

conditions

Keep container tightly closed in a dry and well-ventilated place.

**Materials to Avoid** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure limits** Contains no substances with occupational exposure limit values

## Appropriate engineering controls

**Engineering Measures** Eyewash stations. Showers. Ventilation systems.

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

**Personal Protective Equipment** 

**General Information** 

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection

None under normal use conditions.

**Eye Protection** 

Tightly fitting safety goggles. Wear suitable protective clothing.

Skin and body protection **Hand Protection** 

Protective gloves

Hygiene measures

Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid

**ph** 2.9

Flash point: > 93.900 °C

Boiling point/boiling range > 100 °C / 212 °F

**Odor** Odorless Color colorless

Autoignition temperature: No information available

Vapor Pressure 24 hPa Vapor density 0.6

**Density** No information available Water Solubility completely soluble

Melting point/range: No information available

Specific Gravity 1.11

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

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None under normal processing.

Conditions to Avoid

Do not freeze.

Materials to Avoid

Strong oxidizing agents.

## Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating gases and vapors.

### 11. TOXICOLOGICAL INFORMATION

## Acute toxicity - Product Information

**Skin contact** May cause skin irritation and/or dermatitis.

**Eye contact Inhalation**Risk of serious damage to eyes.

May cause irritation of respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

Oral 47,850.00 mg/kg

Dermal No information available

Inhalation

Gas No information available
Mist No information available
Vapor No information available

**Acute toxicity - Component Information** 

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90,000 mg/kg (Rat)		
Aluminum sulfate > 5000 mg/kg ( Rat )			

Chemical Name	Other applicable information
Aluminum sulfate	Severe eye irritation No skin irritation Cell transformation assay:
	negative Ingestion may cause gastrointestinal irritation, nausea,
	vomiting and diarrhea

**Aggravated Medical Conditions** 

Skin disorders, Respiratory disorders.

Subchronic toxicity

Chronic toxicity

SensitizationNo information available.Neurological effectsNo information available.Target Organ EffectsRespiratory system, Eyes.

CMR Effects

**Carcinogenicity** Contains no ingredient listed as a carcinogen.

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## 12. ECOLOGICAL INFORMATION

## Ecotoxicity

# 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
Aluminum sulfate		LC50= 100 mg/L Carassius auratus 96 h LC50= 37 mg/L Gambusia affinis 96 h	EC50 = 136 mg/L 15 min (Daphnia magna)

## Persistence and degradability

No information available

### **Bioaccumulative potential**

No information available

#### **Mobility in soil**

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.

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### 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

**UN/ID No** UN3264

Corrosive liquid, acidic, inorganic, n.o.s. **Proper Shipping Name** 

Aluminum sulfate **Technical Name** 

**Hazard class Packing Group** Ш C1 **Classification Code** ADR/RID-Labels 274 **Special Provisions ADR Hazard Id (Kemmler** 80

Number)

**Limited Quantity** LQ7

## IMDG/IMO

**UN/ID No** UN3264

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s.

**Technical Name** Aluminum sulfate

**Hazard class** Ш **Packing Group Marine Pollutant** NΡ EmS No. F-A, S-B 223, 274 **Special Provisions** Limited quantity DFDA 5 L

## ICAO/IATA

UN/ID No UN3264

Corrosive liquid, acidic, inorganic, n.o.s. **Proper Shipping Name** 

Aluminum sulfate **Technical Name** 

**Hazard class** 8 **Packing Group** Ш **ERG Code** 81 **Special Provisions** A3 **Limited quantity DFDA** 1 L

# ADN

**UN/ID No** UN3264

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s.

**Technical Name** Aluminum sulfate

**Hazard class Packing Group** Ш **Classification Code** C1 **Special Provisions** 274 Limited quantity DFDA LQ7

#### **TDG**

**UN/ID No** UN3264

**Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s. Page 8/8

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Technical Name Aluminum sulfate

Hazard class 8
Packing Group III

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

#### 15. REGULATORY INFORMATION

## International Inventories

**EINECS/ELINCS** Complies Complies **TSCA DSL/NDSL** Complies Complies **ENCS IECSC** Complies Complies **KECL 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/NDSL - 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

# National regulatory information

Industrial Safety and Health Law:

industrial Safety and fleatiff Law.				
Chemical Name	Dangerous Substances	organic solvent	Harmful Substances Whose Names Are to be	Biological monitoring
			Indicated on the Label	
Aluminum sulfate	>1 %	not applicable	not applicable	

Fire Service Law: None

#### 16. OTHER INFORMATION

Revision Date 2013-11-01

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 Material Safety Data Sheet** 

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