

MATERIAL SAFETY DATA SHEET

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Issuing date 2013-10-25 Revision Date 2013-10-25 Version 1

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

Product name: INDUSTREX Manual Stop Bath

Product code: 1054873

Supplier Carestream Health Canada, 8800 Dufferin Street, Suite 201, Vaughan, Ontario, L4K 0C5

For Emergency Health Information call: 800-424-9300

For other information contact: 1-866-792-5011

Product Use: Photographic chemical. Restricted to professional users.

2. HAZARDS IDENTIFICATION

Warning!

Emergency Overview

Irritating to eyes

Physical state liquid Odor Odorless Color orange

HMIS Health Hazard - 2 Flammability - 1 Physical - 0
Hazard

Potential Health Effects

Eyes Irritating to eyes.

SkinMay cause skin irritation and/or dermatitis.InhalationMay cause irritation of respiratory tract.

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

Chronic Effects

Chronic toxicity No known effect based on information supplied.

Aggravated Medical Conditions None known.

Environmental hazard See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Chemical Name	CAS-No	Weight %
Citric acid	77-92-9	20-25
Non-Hazardous		•
Chemical Name	CAS-No	Weight %
Water	7732-18-5	60-70
Bromocresol purple	115-40-2	10-15

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4. FIRST AID MEASURES

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR

EMERGENCY MEDICAL CARE.

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

irritation persists.

Skin contact Wash off with warm water and soap. Remove and wash contaminated clothing before

re-use. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

Ingestion Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth

to an unconscious person. Get medical attention.

Notes to physician Treat symptomatically.

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO₂). Dry powder. Water spray.

Alcohol-resistant foam.

Unsuitable Extinguishing MediaDo not use a solid water stream as it may scatter and spread fire.

Hazardous Combustion Products Thermal decomposition can lead to release of irritating gases and

vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health Hazard - 2 Flammability - 1 Stability - 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ensure adequate ventilation. Avoid contact with the skin and the eyes. Use personal

protective equipment.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and

place into a container for later disposal.

Other information See Section 12 for additional information.

7. HANDLING AND STORAGE

Advice on safe handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Ensure

adequate ventilation. Wash thoroughly after handling.

Technical measures/Storage

conditions

Keep tightly closed in a dry and cool place. Keep at temperatures between 5°C and 25°C.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Occupational Exposure Controls

Engineering Measures Ensure adequate ventilation. Apply technical measures to comply with the occupational

exposure limits.

Personal Protective Equipment

General Information These recommendations apply to the product as supplied.

Respiratory protectionUse only with adequate ventilation. If exposure limits are exceeded or irritation is

experienced, NIOSH/MSHA approved respiratory protection should be worn.

Eye/Face Protection Safety glasses with side-shields. If splashes are likely to occur, wear:. Goggles.

Skin and body protectionWear suitable protective clothing.

Hand Protection Impervious gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor Odorless

Autoignition temperature: No information available

Color orange

Physical state liquid ph No information available

Flash point: No information available Boiling point/boiling range > 100 °C

Vapor Pressure 23 hPa @ 20 °C Vapor density No information available

Density 1.106 g/cm3

Water Solubility Miscible with water

Melting point/range: No information available Specific Gravity No information available Bulk Density: No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Incompatible products Acids. Bases. Oxidizing agents.

Conditions to Avoid None known.

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

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

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Acute toxicity - Product Information

Skin May cause skin irritation and/or dermatitis.

Eyes Irritating to eyes.

Inhalation May cause irritation of respiratory tract.

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

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90,000 mg/kg (Rat)		
Citric acid	3000 mg/kg (Rat)		

Subchronic toxicity No information available

Carcinogenicity There are no known carcinogenic chemicals in this product.

Target Organ Effects Eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects The environmental impact of this product has not been fully investigated.

Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Citric acid		LC50= 1516 mg/L Lepomis macrochirus 96 h	EC50 = 120 mg/L 72 h (Daphnia magna)

Persistence and degradability No information available

Bioaccumulation: - No information available

Mobility - No information available

Chemical Name	log Pow
Citric acid	-1.72

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods 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

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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.

DOT Not regulated

TDG Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

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

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

D2B Toxic materials



International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

ENCS Does not comply
IECSC Complies
KECL Does not comply
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

16. OTHER INFORMATION

Disclaimer for Label The data below reflects current legislative requirements whereas the product in your

possession may carry a different version of the label depending on the date of manufacture.

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Warning!

- Contains:

Hazardous Components

Chemical Name	CAS-No	Weight %
Citric acid	77-92-9	20-25

Irritating to eyes.

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

Additional information is given in the Material Safety Data Sheet.

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