

# **SAFETY DATA SHEET**

Issuing date 2015-08-25 Revision Date 2015-08-25 Version 1

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

Product name: INDUSTREX Manual Fixer

Product code: 5320643

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

### Classification

Serious eye damage/eye Irritation

#### Label elements

### **Emergency Overview**

Category 2A

Signal word Warning

# Hazard Statements

Causes serious eye irritation



Appearance Colorless Physical state liquid Odor Odorless

## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

3.5% of the mixture consists of ingredient(s) of unknown toxicity

#### 5.576 of the mixture consists of ingredient(3) of difficient toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Water 7732-18-5	7732-18-5	50-60	*
Ammonium thiosulfate 7783-18-8	7783-18-8	20-30	*
Sodium thiosulfate pentahydrate 10102-17-7	10102-17-7	15-20	*
Sodium metabisulfite 7681-57-4	7681-57-4	1-<3	*
Sodium acetate 127-09-3	127-09-3	1-5	*

<sup>\*</sup>The exact percentages (concentrations) have been withheld as trade secrets.

# 4. FIRST AID MEASURES

#### **First Aid Measures**

**General advice** If symptoms persist, call a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention immediately if symptoms occur.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

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

**Inhalation** Move to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** If swallowed, call a poison control center or doctor immediately. Do not induce vomiting

without medical advice. Clean mouth with water and afterwards drink plenty of water. Never

give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

Main Symptoms Irritation.

#### Indication of any immediate medical attention and special treatment needed

**Notes to physician** Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

# Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Dry powder. Water spray.

### **Unsuitable Extinguishing Media**

Do not use a solid water stream as it may scatter and spread fire.

## Specific hazards arising from the chemical

Dried product residue can act as a reducing agent. Reacts violently with oxidizing materials. May cause spontaneous heating and ignition when absorbed on combustible, porous material (e.g. rags, paper, sawdust, cotton, clothing).

#### **Hazardous Combustion Products**

Carbon oxides, Nitrogen oxides (NOx),

#### **Explosion Data**

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

### **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.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment.

**Environmental precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers,

basements or confined areas.

Methods and material for containment and cleaning up

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

Methods for cleaning up Soak up with inert absorbent material. Sweep up and shovel into suitable containers for

disposal.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. 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 container tightly closed in a dry and well-ventilated place.

**Incompatible products** Acids. Strong bases. Oxidizing agents. Halogenated compounds. Sodium hypochlorite.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

Exposure Garacinics	<u> </u>			
Chemical Name	ACGIH TLV	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs	OSHA PEL	Advisory OEL
Sodium metabisulfite 7681-57-4	TWA: 5 mg/m <sup>3</sup>		-	

#### **Appropriate engineering controls**

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

exposure limits. Showers. Eyewash stations.

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## Individual protection measures, such as personal protective equipment

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

**Skin and body protection**Wear protective gloves/clothing. Skin contact should be prevented through use of suitable

protective clothing, gloves, and footwear, selected with regard of use conditions and

exposure potential.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene measures Remove and wash contaminated clothing before re-use.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### **PHYSICAL AND CHEMICAL PROPERTIES**

Physical state liquid

Appearance Colorless Odor Odorless

ColorcolorlessOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks/ • Method</u>

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5.7

Melting point/range:

No information available > 100 °C No information available

Boiling point/boiling range Flash Point

Does not flash.

**Evaporation rate** 

No information available

Flammability (solid, gas) upper flammability limit

lower flammability limit

23 hPa @ 20 °C

No information available No information available

Vapor pressure Vapor density Specific Gravity Water Solubility

No information available
Miscible with water
No information available

Solubility in other solvents
Partition coefficient: n-octanol/water

No information available
No information available
No information available
No information available

Autoignition temperature Decomposition temperature Viscosity, kinematic

No information available
No information available

Viscosity, dynamic Oxidizing Properties

**Explosive properties** 

No information available
No information available

Other information

No information available

Softening point Molecular Weight Density

No information available No information available No information available

**Bulk Density VALUE** 

10. STABILITY AND REACTIVITY

# Reactivity

None under normal use conditions.

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#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

Hazardous polymerization does not occur. May cause spontaneous heating and ignition when absorbed on combustible, porous material (e.g. rags, paper, sawdust, cotton, clothing). Contact with strong acids liberates sulfur dioxide. Contact with sodium hypochlorite (bleach) may form chloramine (toxic gas).

#### **Conditions to Avoid**

None known based on information supplied.

# **Incompatible Materials**

Acids. Strong bases. Oxidizing agents. Halogenated compounds. Sodium hypochlorite.

# **Hazardous Decomposition Products**

Ammonia. Chloramine. Sulfur oxides. Nitrogen oxides (NOx).

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### **Product Information**

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

**Eye contact** Causes eye irritation.

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

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

Toxicology data for the components

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium thiosulfate 7783-18-8	> 2000 mg/kg (Rat)	-	-
Sodium metabisulfite 7681-57-4	1310 mg/kg (Rat) Oral LD50 Rat 1310 mg/kg (Source: JAPAN_GHS)	-	-
Sodium acetate 127-09-3	3530 mg/kg ( Rat )	10 g/kg (Rabbit) Dermal LD50 Rabbit >10 g/kg (Source: NLM_CIP)	30 g/m³(Rat)1 h Inhalation LC50 Rat >30 g/m³ 1 h (Source: NLM_CIP)

# Information on toxicological effects

Symptoms Irritant.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available. No information available.

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

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects

Aspiration Hazard

No information available
No information available
Eyes, Skin, Respiratory system.
No information available.

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## Numerical measures of toxicity - Product Information

**Unknown acute toxicity** 3.5% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 6597 mg/kg
ATEmix (dermal) 61920 mg/kg
ATEmix (inhalation-dust/mist) 288.5 mg/L

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

41.43% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Sodium metabisulfite 7681-57-4	40: 96 h Desmodesmus subspicatus mg/L EC50 48: 72 h Desmodesmus subspicatus mg/L EC50	32: 96 h Lepomis macrochirus mg/L LC50 static		
Sodium acetate 127-09-3				1000: 48 h Daphnia magna mg/L EC50

## Persistence and degradability

Expected to be readily biodegradable.

#### **Bioaccumulation:**

No information available.

Chemical Name	log Pow
Sodium metabisulfite	-3.7
7681-57-4	

### 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

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.carestream.com

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# 15. REGULATORY INFORMATION

### **International Inventories**

**TSCA** Does not comply

DSL/NDSL Complies

**EINECS/ELINCS** Does not comply Does not comply **ENCS** 

**IECSC** Complies

Does not comply **KECL PICCS** Does not comply **AICS** Does not comply **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

**Revision Date** 2015-08-25

**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