

# **SAFETY DATA SHEET**

**Issuing date** 12/05/2016 **Revision Date** 12/05/2016 **Version** 1.01

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

**Product name:** INDUSTREX Manual Fixer INDUSTREX Manual Fixer Replenisher

Product code: 1057017FIX

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

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Label elements

**Emergency Overview** 

Appearance Colorless Physical state liquid Odor Odorless

Hazards not otherwise classified (HNOC)

Other Information

No information available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Sodium sulfite 7757-83-7	7757-83-7	1-5	*
Aluminum sulfate 10043-01-3	10043-01-3	<1	*
Acetic acid 64-19-7	64-19-7	<1	*

<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 May cause an allergic skin reaction.

### 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 Guidelliles				
Chemical Name	ACGIH TLV	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs	OSHA PEL	Advisory OEL
Acetic acid 64-19-7	STEL 15 ppm TWA: 10 ppm		TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>	

### Appropriate engineering controls

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

exposure limits. Showers. Eyewash stations.

### 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

Color colorless Odor Threshold No information available

Property Values Remarks/ • Method 5.7

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Melting point/range:No information availableBoiling point/boiling range> > 100 °C °CNo information available

Flash Point Does not flash.

Evaporation rate No information available

Flammability (solid, gas) upper flammability limit lower flammability limit

 Vapor pressure
 23 hPa @ 20 °C
 No information available

Vapor densityNo information availableSpecific GravityNo information available

Water Solubility
Miscible with water
No information available
Viscosity, kinematic
Viscosity, dynamic
No information available
No information available
No information available

Oxidizing Properties No information available Explosive properties No information available

Other information No information available

Softening point

Molecular WeightNo information availableNo information availableDensityg/cm3No information availableBulk Density:No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

None under normal use conditions.

## **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** Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness,

stomach upset, hives, faintness, weakness and diarrhea. May cause irritation of respiratory

tract.

**Eye contact** May cause slight irritation.

**Skin contact** Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion May be harmful if swallowed. Some asthmatics or sulfite-sensitive individuals may

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experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.

Toxicology data for the components

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium sulfite         820 mg/kg ( Rat )           7757-83-7         Oral LD50 Rat 820 mg/kg (Source		-	22 mg/L (Rat) 1 h Inhalation LC50 Rat >22 mg/L 1 h
	IUCLID)		(Source: IUCLID)
Aluminum sulfate 10043-01-3	> 5000 mg/kg (Rat)	-	-
Acetic acid 64-19-7	3310 mg/kg ( Rat )	1060 mg/kg(Rabbit)	11.4 mg/L (Rat) 4 h Inhalation LC50 Rat 11.4 mg/L 4 h (Source: NLM_CIP)

Chemical Name	Other applicable information
Sodium sulfite	No skin irritation
	Mild eye irritation
Aluminum sulfate	Severe eye irritation
	No skin irritation
	Cell transformation assay: negative
	Ingestion may cause gastrointestinal irritation, nausea,
	vomiting and diarrhea
Acetic acid	Severe eye irritation
	Severe skin irritation
	Acute overexposure to extremely high airborne
	concentrations of respiratory irritants has been associated
	with development of an asthma-like reactive airways
	syndrome (RADS) in susceptible individuals. Extremely
	high airborne concentrations are not generated during
	normal conditions of use but may occur following a spill.
	The potential to generate extremely high airborne
	concentrations in a spill situation depends upon physical
	factors such as the concentration of the solution, the
	volume of the spill, the surface area of the spill, the size of
	the room where the spill occured, and the ventilation rate
	in the room.

## Information on toxicological effects

Symptoms Allergic skin reactions including rash, dermatitis, irritation, and itching.

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

**Sensitization Mutagenic effects**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.

## Numerical measures of toxicity - Product Information

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

ATEmix (oral) 5791 mg/kg
ATEmix (dermal) 326797 mg/kg ppm

ATEmix (inhalation-dust/mist) 94.3 mg/L

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

23.07% 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 sulfite 7757-83-7		220 - 460: 96 h Leuciscus idus mg/L LC50 static		330: 24 h Psammechinus miliaris mg/L LC50
Aluminum sulfate 10043-01-3		100: 96 h Carassius auratus mg/L LC50 37: 96 h Gambusia affinis mg/L LC50 static		136: 15 min Daphnia magna mg/L EC50
Acetic acid 64-19-7		75: 96 h Lepomis macrochirus mg/L LC50 static 79: 96 h Pimephales promelas mg/L LC50 static		47: 24 h Daphnia magna mg/L EC50 65: 48 h Daphnia magna mg/L EC50 Static

## Persistence and degradability

Expected to be readily biodegradable.

### **Bioaccumulation:**

No information available.

Chemical Name	log Pow
Sodium sulfite 7757-83-7	-4
Acetic acid 64-19-7	-0.31

## 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.

DOTNot regulatedTDGNot regulatedICAO/IATANot regulatedIMDG/IMONot regulated

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

# 15. REGULATORY INFORMATION

## **International Inventories**

"Does not comply" indicates a component is either not on the public inventory or is subject to exemption requirements. If additional information is needed contact Carestream Health.

**TSCA** Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS IECSC** Complies Complies **KECL** Complies **PICCS** Complies **AICS 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 12/05/2016

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