

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : 214CS1 lodine Print Fixative

Product code : 214CS1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Laboratory chemical

1.3. Details of the supplier of the safety data sheet

SIRCHIE Finger Print Laboratories 100 Hunter Place

Youngsville, NC 27596 - USA

T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181

http://www.sirchie.com

1.4. Emergency telephone number

Emergency number : 1.800.424.9300

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

**Classification (GHS-US)** 

Not classified

## 2.2. Label elements

#### **GHS-US** labeling

No labeling applicable

# 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS-US)

Not applicable

# **SECTION 3: Composition/information on ingredients**

# 3.1. Substance

Not applicable

# 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
AQUA	(CAS No) 7732-18-5	90.9	Not classified
calcium chloride	(CAS No) 10043-52-4	4.55	Eye Irrit. 2A, H319
potassium bromide	(CAS No) 7758-02-3	4.55	Not classified

Full text of H-phrases: see section 16

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Special hazards arising from the substance or mixture

No additional information available

## 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

# **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

## 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

# 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

214CS1 Iodine Print Fixative		
ACGIH	Not applicable	
OSHA	Not applicable	
calcium chloride (10043-52-4)		
ACGIH	Not applicable	
OSHA	Not applicable	

potassium bromide (7758-02-3)		-3)
	ACGIH	Not applicable

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potassium bromide (7758-02-3)		
OSHA	Not applicable	
AQUA (7732-18-5)		
ACGIH	Not applicable	
OSHA	Not applicable	

# 8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses. Dust/aerosol mask. Avoid all unnecessary exposure.



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.
Color : Colorless Colorless

Odor : Almost odourless characteristic

Odor threshold No data available рH : No data available Melting point No data available Freezing point : No data available : No data available Boiling point No data available Flash point Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) : No data available : No data available **Explosion limits** Explosive properties : No data available Oxidizing properties No data available Vapor pressure : No data available Relative density No data available Relative vapor density at 20 °C : No data available

Solubility : Water: Solubility in water of component(s) of the mixture :

•: 75 g/100ml •: 66 g/100ml

Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

## 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No additional information available

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# 10.2. Chemical stability

Not established.

# 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Not classified

calcium chloride (10043-52-4)			
LD50 oral rat	> 1000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 2301 mg/kg bodyweight; Rat; Experimental value)		
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Experimental value; Other)		
LC50 inhalation rat (mg/l)	> 0.16 mg/l/4h (Rat; Literature study)		
potassium bromide (7758-02-3)			
LD50 oral rat	3070 mg/kg (Rat)		

3070.000 mg/kg body weight

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

ATE US (oral)

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

calcium chloride (10043-52-4)		
LC50 fish 1	13400 mg/l (96 h; Gambusia affinis; Lethal)	
EC50 Daphnia 1	144 mg/l (48 h; Daphnia magna)	
LC50 fish 2	10650 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	383 mg/l (48 h; Daphnia magna)	
TLM fish 1	2400 ppm (48 h; Pisces)	
Threshold limit algae 1	3130 mg/l (120 h; Diatomeae)	
Threshold limit algae 2	27000 mg/l (72 h; Selenastrum capricornutum; GLP)	
potassium bromide (7758-02-3)		
LC50 fish 1	> 30 mg/l (96 h; Pisces; Bromine ion)	

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potassium bromide (7758-02-3)	
EC50 Daphnia 1	> 30 mg/l (96 h; Daphnia magna; Bromine ion)
EC50 Daphnia 2	> 30 mg/l (96 h; Asellus sp.; Bromine ion)

## 12.2. Persistence and degradability

214CS1 Iodine Print Fixative		
Persistence and degradability	Not established.	
calcium chloride (10043-52-4)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
potassium bromide (7758-02-3)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

## 12.3. Bioaccumulative potential

214CS1 Iodine Print Fixative		
Bioaccumulative potential Not established.		
calcium chloride (10043-52-4)		
Bioaccumulative potential Bioaccumulation: not applicable.		
potassium bromide (7758-02-3)		
Bioaccumulative potential	No bioaccumulation data available.	

# 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT Not regulated for transport

# **Additional information**

Other information : No supplementary information available.

## **ADR**

No additional information available

## Transport by sea

No additional information available

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#### Air transport

No additional information available

# **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

No additional information available

## 15.2. International regulations

## **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

# Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

## **National regulations**

No additional information available

# 15.3. US State regulations

No additional information available

# **SECTION 16: Other information**

ndication of changes	:	Revision -	- See :	*	
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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : None.

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
H319	Causes serious eye irritation

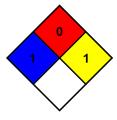
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with

some release of energy, but not violently.



HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo

hazardous polymerization in the absence of inhibitors.

Personal Protection : 0

G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

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