

Safety Data Sheet

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

Revision date: 01/06/2015 Supersedes:01/27/2011 Version:

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

1.1. Product identifier

Product form : Mixture

Product name. : IoFume Activator Solution

Product code : LPF1001

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

Use of the substance/preparation : Crime Scene Investigation

1.3. Details of the supplier of the safety data sheet

SIRCHIE Finger Print Laboratories

100 Hunter Place

27596 Youngsville, NC - 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

Hazard statements (GHS-US) : H320 - Causes eye irritation

If this product is used as indicated it is unlikely that any adverse health issues will occur . Inhalation or ingestion of significant amounts may cause respiratory irritation and/or gastric

disturbances.

Precautionary statements (GHS-US) : P102 - Keep out of reach of children

P201 - Obtain special instructions before use P282 - Wear eye protection, protective gloves.

P301+P312 - If swallowed, call a doctor if you feel unwell.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification (GHS-US)
AQUA	(CAS No.)7732-18-5	90	Not classified
citric acid, monohydrate	(CAS No.)5949-29-1	10	Eye Irrit. 2A, H319
4,4'-methylene-bis(2-methylbenzenamine)	(CAS No.)838-88-0	< 0.1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Carc. 1B, H350

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SECTION 4: First aid measures

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 Assure fresh air breathing. 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.

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

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

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

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

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

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

5.3. Advice for firefighters

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

chemical fire. Avoid (reject) fire-fighting water to enter environment.

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

SECTION 6: Accidental release measures

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.

Methods and material for containment and cleaning up

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

spillage. Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and

when leaving work. Provide good ventilation in process area to prevent formation of vapor.

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.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

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Exposure controls

Personal protective equipment : Avoid all unnecessary exposure. Gas mask. Gloves. Safety glasses.

: No data available

: No data available

: No data available

No data available : No data available



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear approved mask.

Other information : When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid Appearance : Liquid.

Color : Bluish liquid. clear.

Odor : lemon-like.

Odor threshold : No data available : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available : No data available Melting point Freezing point : No data available : No data available Boiling point No data available Flash point Self ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility Soluble in water. No data available Log Pow : No data available Log Kow

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1.

Viscosity, kinematic

Viscosity, dynamic Explosive properties

Oxidizing properties

Explosive limits

No reactivity hazard other than the effects described in sub-sections below.

10.2. **Chemical stability**

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Not established.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

strong acids. Strong bases.

Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

citric acid, monohydrate (5949-29-1)	
LD50 oral rat	3000 mg/kg (Rat)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classifiedBased on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classifiedBased on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classifiedBased on available data, the classification criteria are not met
Aspiration hazard	: Not classifiedBased on available data, the classification criteria are not met
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

symptoms

citric acid, monohydrate (5949-29-1)	
LC50 fish 1	1516 mg/l (96 h; Lepomis macrochirus; ANHYDROUS FORM)
EC50 Daphnia 1	85 mg/l (72 h; Daphnia magna; ANHYDROUS FORM)
EC50 Daphnia 2	120 mg/l (Daphnia magna; ANHYDROUS FORM)
Threshold limit algae 1	80 mg/l (192 h; Microcystis aeruginosa; ANHYDROUS FORM)
Threshold limit algae 2	640 mg/l (168 h; Scenedesmus quadricauda; ANHYDROUS FORM)

12.2. Persistence and degradability

IoFume Activator Solution	DFume Activator Solution	
Persistence and degradability	Not established.	
citric acid, monohydrate (5949-29-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.	
Biochemical oxygen demand (BOD)	0.481 g O ² /g substance	
Chemical oxygen demand (COD)	0.665 g O²/g substance	

12.3. Bioaccumulative potential

IoFume Activator Solution	me Activator Solution	
Bioaccumulative potential	Not established.	
citric acid, monohydrate (5949-29-1)		
Log Pow	-1.72 (Experimental value)	
Bioaccumulative potential	Bioaccumulation: not applicable.	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

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

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not applicable

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14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information

: No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

IoFume Activator Solution

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

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

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

Other information

IoFume Activator Solution()	
U.S California - Proposition 65 - Carcinogens List	Yes

SECTION 16: Other information

Indication of changes	: Revision - See : *.
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 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. Keep in tightly closed container. Keep cool and dry. Avoid all ignition sources - heat, open flame, sparks. Avoid incompatible materials. Avoid dust creation and accumulation. Avoid inhalation and ingestion. Avoid contact with eyes. Wash thoroughly after handling.

Full text of H-phrases: see section 16:

•	. c pacco. ccc cccc.	
	Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
I	H319	Causes serious eye irritation

: This Safety Data Sheet has been established in accordance with the applicable European

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

Union legislation.

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

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NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.

HMIS III Rating

: 2 Moderate Hazard - Temporary or minor injury may occur Health

Flammability : 0 Minimal Hazard Physical : 1 Slight Hazard

Personal Protection : G

SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.

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