

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 : CNA4000B Cyano-Shot Ultra Latent Print Activator Solution

Product code : CNA4000B

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

Use of the substance/mixture : Latent fingerprint developer

13, 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)

Skin Corr. 1A H314

Full text of H-phrases: see section 16

?. Label elements

HS-US labeling د

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US)

Danger

Hazard statements (GHS-US)

: H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US)

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P264 - Wash all exposed skin thoroughly after handling

P280 - Wear eye protection, protective gloves

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

lenses, if present and easy to do. Continue rinsing P310 - Immediately call a poison center/doctor/... P321 - Specific treatment (see ... on this label) P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

Not applicable

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ECTION 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	> 89	Not classified
citric acid, monohydrate	(CAS No) 5949-29-1	< 10	Skin Corr. 1A, H314 Eye Irrit. 2A, H319
methylene blue	(CAS No) 61-73-4	< 1	Acute Tox. 4 (Oral), H302

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures:

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

advice (show the label where possible).

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

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

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.

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

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

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

No additional information available

SECTION 5: Firefighting measures

, Extinguishing media

: Foam, Dry powder, Carbon dioxide, Water spray, Sand.

Suitable extinguishing media Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

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

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.

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

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

: 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

Methods for cleaning up

e Heading 8. Exposure controls and personal protection.

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ECTION 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

CNA4000B Cyano-Shot Ultra	a Latent Print Activator Solution
ACGIH	Not applicable
OSHA	Not applicable

citric acid, monohydrate (59	49-29-1)
ACGIH	Not applicable
OSHA	Not applicable

AQUA (7:/32-18-5)	
ACGIH	Not applicable
OSHA	Not applicable

methylene blue (61:73:4)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Personal protective equipment

: Gloves. Safety glasses. Avoid all unnecessary exposure.



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Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Respiratory protection

Wear appropriate mask.

Other information

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: 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 : blue. Liquid.
Color : blue
Odor : Mild odour

Odor threshold : No data available
pH : No data available
Melting point : No data available
eezing point : No data available
Boiling point : No data available
No data available

Flash point : No data available

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lative evaporation rate (butyl acetate=1) : No data available rlammability (solid, gas) : No data available Explosion limits : No data available 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

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

•: 67 g/100ml •: 2.5 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. Othersinformation

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

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

citric acid, monohydrate (5949-	29-1)
LD50 oral rat	3000 mg/kg (Rat; Literature study)
LD50 dermai rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
ATE US (oral)	3000.000 mg/kg body weight

methylene blue (61-73-4)		
LD50 oral rat	1180 mg/kg (Rat)	
ATE US (oral)	1180.000 mg/kg body weight	

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
arm cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

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.eproductive 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

: Not classified

exposure)

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

citric acid, monohydrate (5949-29	i)
LC50 fish 1	1516 mg/l (96 h; Lepomis macrochirus; Anhydrous form)
EC50 Daphnia 1	85 mg/l (72 h; Daphnia magna; Anhydrous form)
LC50 fish 2	440-760,96 h; Pisces
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)

methylene blue (61-73-4)	
LC50 fish 1	13 mg/l (48 h; Oryzias latipes)
EC50 Daphnia 1	2.26 mg/l (48 h; Daphnia magna)
LC50 fish 2	18 mg/l (96 h; Mystus vittatus)
EC50 Daphnia 2	4.93 mg/l (24 h; Daphnia magna)
LM fish 1	10 - 100,48 h; Poecilia reticulata

12.2. Persistence and degradability

CNA4000B Cyano-Shot-Ultra Latent Print Activator Solution		
Persistence and degradability	Not established.	
citric acid monohydrate (5949-29-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	0.481 g O₂/g substance	
Chemical oxygen demand (COD)	0.665 g O₂/g substance	
BOD (% of ThOD)	(20 day(s)) 0.889	

methylene blue (61-73-4)	
Persistence and degradability	Biodegradability in water: no data available. Photodegradation in the air.

123. Bioaccumulative potential

CNA4000B Cyano-Shot Ultra Latent Print Activator Solution		
Bioaccumulative potential	Not established.	
citric acid, monohydrate (5949-29-1)		
Log Pow	-1.72 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

Log Pow	5.85 (Estimated value)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

12.5, Other adverse effects

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

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[່]າ additional information available

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ther 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

Transport document description

: NON-HAZARDOUS

UN-No.(DOT)

: NON-HAZARDOUS

Additional Information

Other information

: No supplementary information available.

ADR

Transport document description

: UN NON-HAZARDOUS

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

1. US Federal regulations

. to 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

153. US State regulations

No additional information available

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.

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sining 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.

Other information

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

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. 1A	Skin corrosion/irritation Category 1A
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation

NFPA health hazard

 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention 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

: 2 Moderate Hazard - Temporary or minor injury may occur

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.

⊿rsonal Protection

: B

B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

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