

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/28/2013 Revision date: 11/12/2014 Supersedes: 01/19/2011

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

**Product identifier** 

Product form : Mixture

Product name : 290P1 Color Developing Reagent

Product code 290P1

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

: Laboratory chemical Use of the substance/mixture

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

**Emergency telephone number** 

Emergency number : 1.800.424.9300

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### Classification (GHS-US)

Flam. Liq. 2 H225 Carc. 1A H350 STOT SE 1 H370

Full text of H-phrases: see section 16

#### 2.2. Label elements

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

Hazard pictograms (GHS-US)





GHS02

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapor

H350 - May cause cancer

H370 - Causes damage to organs

Precautionary statements (GHS-US) P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat, hot surfaces, open flames, sparks, - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe fume, vapors

P264 - Wash all exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear eye protection, protective gloves

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

skin with water/shower

P307+P311 - If exposed: Call a poison center/doctor

P308+P313 - If exposed or concerned: Get medical advice/attention

P321 - Specific treatment (see information on this label)

P370+P378 - In case of fire: Use CO2, dry chemical, foam, water spray to extinguish

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to local/regional/national/international regulations

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#### Other hazards

Other hazards not contributing to the

: None under normal conditions.

classification

#### **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)
ethanol	(CAS No) 64-17-5	85.4 - 92	Flam. Liq. 2, H225 Carc. 1A, H350
methyl isobutyl ketone	(CAS No) 108-10-1	5	Flam. Liq. 2, H225
methanol	(CAS No) 67-56-1	3.6	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
AQUA	(CAS No) 7732-18-5	1.9	Not classified
ethyl acetate	(CAS No) 141-78-6	1.3	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of H-phrases: see section 16

### **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 : 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

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. 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**

#### 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.

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#### 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.

: Strong bases. Strong acids.

Incompatible products
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

290P1 Color Developing Reagent		
ACGIH	Not applicable	
OSHA	Not applicable	
ethanol (64-17-5)		
ACGIH	Not applicable	
OSHA	Not applicable	

## ethyl acetate (141-78-6)

OSHA Not applicable

#### methanol (67-56-1)

OSHA Not applicable

#### AQUA (7732-18-5)

ACGIH	Not applicable
OSHA	Not applicable

#### methyl isobutyl ketone (108-10-1)

OSHA Not applicable

#### 8.2. Exposure controls

Personal protective equipment : Gas mask. Gloves. Safety glasses. 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.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Color Colorless Odor : Alcohol odour Odor threshold No data available : No data available pН Relative evaporation rate (butyl acetate=1) : No data available Melting point No data available Freezing point : No data available **Boiling point** : No data available Flash point : No data available Auto-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.

Water: Solubility in water of component(s) of the mixture:
•: •: 8 g/100ml •: >= 100 g/100ml •: 1.4 g/100ml

: No data available

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

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

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

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Sparks.

#### 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

ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)

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ethanol (64-17-5)	
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740.000 mg/kg body weight
ethyl acetate (141-78-6)	
LD50 oral rat	5620 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 10200 mg/kg bodyweight; Rat)
LD50 dermal rabbit	> 18000 mg/kg (Rabbit; Experimental value; 24 hour cuff method; >20000 mg/kg bodyweight; Rabbit)
LC50 inhalation rat (mg/l)	70.56 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	19600 ppm/4h (Rat)
ATE US (oral)	5620.000 mg/kg body weight
ATE US (gases)	19600.000 ppmV/4h
ATE US (vapors)	70.560 mg/l/4h
ATE US (dust, mist)	70.560 mg/l/4h
methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight o evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	300.000 mg/kg body weight
ATE US (gases)	700.000 ppmV/4h
ATE US (vapors)	3.000 mg/l/4h
ATE US (dust, mist)	0.500 mg/l/4h
methyl isobutyl ketone (108-10-1)	
LD50 oral rat	2080 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	>= 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	8.2- 16.4,Rat; Experimental value
LC50 inhalation rat (ppm)	2000 - 4000 ppm/4h (Rat; Experimental value)
ATE US (oral)	2080.000 mg/kg body weight
ATE US (gases)	2000.000 ppmV/4h
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	: May cause cancer.
ethanol (64-17-5)	·
IARC group	1 - Carcinogenic to humans
- 9.5-F	1 2.2 200-3200 12 1200-1200-12
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Causes damage to organs.

Specific target organ toxicity (repeated exposure)

12.1. Toxicity

: Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and : Based on available data, the classification criteria are not met. symptoms

### **SECTION 12: Ecological information**

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ethanol (64-17-5)		
LC50 fish 1	14200 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 1	9300 mg/l (48 h; Daphnia magna)	
LC50 fish 2	13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 2	10800 mg/l (24 h; Daphnia magna)	
Threshold limit other aquatic organisms 1	65 mg/l (72 h; Protozoa)	
Threshold limit algae 1	1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)	
Threshold limit algae 2	5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)	
ethyl acetate (141-78-6)		
LC50 fish 1	454.7 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 1	2500 mg/l (24 h; Daphnia magna)	
LC50 fish 2	230 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 2	154 mg/l (48 h; Daphnia magna)	
TLM fish 1	100 - 1000,96 h; Pisces	
TLM other aquatic organisms 1	100 - 1000,96 h	
Threshold limit algae 1	2000 mg/l (96 h; Selenastrum capricornutum; Biomass)	
Threshold limit algae 2	15 mg/l (192 h; Scenedesmus quadricauda; Growth rate)	
methanol (67-56-1)		
LC50 fish 1	15400 mg/l (96 h; Lepomis macrochirus; Lethal)	
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Lethal)	
LC50 fish 2	10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 2	24500 mg/l (48 h; Daphnia magna; Locomotor effect)	
Threshold limit other aquatic organisms 1	6600 mg/l (16 h; Pseudomonas putida)	
Threshold limit algae 1	530 mg/l (192 h; Microcystis aeruginosa)	
Threshold limit algae 2	8000 mg/l (168 h; Scenedesmus quadricauda)	
methyl isobutyl ketone (108-10-1)		
LC50 fish 1	505 mg/l (96 h; Pimephales promelas; GLP)	
EC50 Daphnia 1	170 mg/l (48 h; Daphnia magna; Static system)	
EC50 other aquatic organisms 1	400 mg/l (96 h; Selenastrum capricornutum; Growth rate)	
LC50 fish 2	600 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 2	> 1000 mg/l (48 h; Daphnia magna; GLP)	
Threshold limit algae 1	136 mg/l (Microcystis aeruginosa)	
Threshold limit algae 2	725 mg/l (8 days; Scenedesmus quadricauda; Nominal concentration)	

290P1 Color Developing Reagent		
Persistence and degradability	Not established.	
ethanol (64-17-5)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O₂/g substance	
Chemical oxygen demand (COD)	1.70 g O₂/g substance	
ThOD	2.10 g O₂/g substance	
BOD (% of ThOD)	0.43 % ThOD	
ethyl acetate (141-78-6)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.	
Biochemical oxygen demand (BOD)	0.293 g O₂/g substance	
Chemical oxygen demand (COD)	1.69 g O₂/g substance	
ThOD	1.82 g O₂/g substance	
methanol (67-56-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.	
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O <sub>2</sub> /g substance	

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methanol (67-56-1)		
Chemical oxygen demand (COD)	1.42 g O₂/g substance	
ThOD	1.5 g O₂/g substance	
BOD (% of ThOD)	0.8 % ThOD	
methyl isobutyl ketone (108-10-1)		
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Low potential for adsorption in soil. Photolysis in the air.	
Biochemical oxygen demand (BOD)	2.06 g O₂/g substance	
Chemical oxygen demand (COD)	2.16 g O₂/g substance	
ThOD	2.72 g O₂/g substance	
BOD (% of ThOD)	0.76 % ThOD	

#### 12.3. Bioaccumulative potential

290P1 Color Developing Reagent		
Bioaccumulative potential	Not established.	
ethanol (64-17-5)		
BCF fish 1	1 (72 h; Cyprinus carpio)	
Log Pow	-0.31 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
ethyl acetate (141-78-6)		
BCF fish 1	30 (3 days; Leuciscus idus)	
Log Pow	0.68 (Experimental value; EPA OPPTS 830.7560; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
methanol (67-56-1)		
BCF fish 1	< 10 (72 h; Leuciscus idus)	
BCF fish 2	1 (72 h; Cyprinus carpio; Blood)	
Log Pow	-0.77 (Experimental value; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
methyl isobutyl ketone (108-10-1)		
BCF fish 1	2 - 5 (Pisces)	
Log Pow	1.9 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

#### 12.4. Mobility in soil

ethanol (64-17-5)		
Surface tension	0.022 N/m (20 °C)	
ethyl acetate (141-78-6)		
Surface tension	0.024 N/m (20 °C)	
methanol (67-56-1)		
Surface tension	0.023 N/m (20 °C)	
methyl isobutyl ketone (108-10-1)		
Surface tension	0.024 N/m (20 °C)	

## 12.5. Other adverse effects

Effect on ozone layer

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.

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Ecology - waste materials : Avoid release to the environment.

#### **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN1170 Ethanol Flammable liquid!, 3, II

UN-No.(DOT) : UN1170
Proper Shipping Name (DOT) : Ethanol

Flammable liquid!

Department of Transportation (DOT) Hazard

Classes

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : II - Medium Danger

**Additional information** 

Other information : No supplementary information available.

**ADR** 

No additional information available

Transport by sea

No additional information available

Air transport

UN-No.(IATA) : 1170
Proper Shipping Name (IATA) : Ethanol

Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : II - Medium Danger

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### 290P1 Color Developing Reagent

Listed on United States SARA Section 313

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 [DSD] or 1999/45/EC [DPD]

F; R11 Xn; R20/21/22 Xn; R68/20/21/22

Full text of R-phrases: see section 16 15.2.2. National regulations

#### 290P1 Color Developing Reagent

Listed on IARC (International Agency for Research on Cancer)

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15.3. US State regulations	
290P1 Color Developing Reagent()	
U.S California - Proposition 65 - Carcinogens List	Yes
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

### **SECTION 16: Other information**

Indication of changes : Revision - See : \*.

Revision date : 11/12/2014

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 : Ensure operators understand the flammability hazard. 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. Normal use of this product shall imply use in

accordance with the instructions on the packaging.

Other information : None

#### Full text of H-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Carc. 1A	Carcinogenicity Category 1A
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
H350	May cause cancer
H370	Causes damage to organs

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 : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn

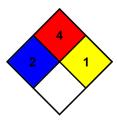
and temperature, or is readily dispersed in air and will burn readily.

readily.

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.



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HMIS III Rating

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

Flammability : 4 Severe 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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