According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 04.28.2017

Cinnamaldehyde Solution 5% w/v

## **SECTION 1: Identification**

# Product identifier

Product name: Cinnamaldehyde Solution 5% w/v Product code: CA2305SS

## Recommended use of the product and restriction on use Relevant identified uses: Laboratory Chemicals

Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

## Manufacturer or supplier details

Manufacturer: United States AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

# Emergency telephone number: Canada ChemTel: (24-hour) +1(800)255-3924 +1(813)248-0585 (International)

# **SECTION 2: Hazard identification**

#### **GHS classification:**

Flammable liquids, category 2 Skin sensitization, category 1

### Label elements

#### Hazard pictograms:



Signal word: Danger

#### Hazard statements:

H225 Highly flammable liquid and vapor.

H317 May cause an allergic skin reaction.

#### Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/light/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use agents recommended in section 5 for extinction.

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

P302+P352 If on skin: Wash with soap and water.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

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

P501 Dispose of contents and container as instructed in Section 13.

# Hazards not otherwise classified: None

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

Identification	Name	Weight %
CAS number: 64-17-5	Ethyl alcohol	95
CAS number: 14371-10-9	Cinnamaldehyde	5

#### Additional Information: None

#### SECTION 4: First-aid measures

#### **Description of first-aid measures**

#### **General notes:**

Not determined or not available.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

## After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

## After ingestion:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists

# Most important symptoms and effects, both acute and delayed

# Acute symptoms and effects:

Not determined or not available.

# Delayed symptoms and effects:

Not determined or not available.

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### Immediate medical attention and special treatment

## Specific treatment:

Not determined or not available.

# Notes for the doctor:

Not determined or not available.

## **SECTION 5: Fire-fighting measures**

## **Extinguishing media**

## Suitable extinguishing media:

Use dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

#### Unsuitable extinguishing media:

Not determined or not applicable.

## Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors Vapors can flow to distant ignition sources and flashback Liquid is volatile and may generate an explosive atmosphere

## Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8

#### Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols Avoid contact with skin, eyes and clothing

# **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Beware of vapors accumulating to form explosive concentrations Vapors can accumulate in low areas

#### **Environmental precautions:**

Should not be released into the environment Prevent from reaching drains, sewer or waterway

### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing Use spark-proof tools and explosion-proof equipment

#### **Reference to other sections:**

Not determined or not applicable.

## **SECTION 7: Handling and storage**

## Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid breathing mist or vapor. Use only non-sparking tools.

Take precautionary measures against electrostatic discharges.

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## Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Keep container tightly sealed.

Keep away from all ignition sources: open flames, hot surfaces, direct sunlight, spark sources. Store locked up.

Use appropriate containment to avoid environmental contamination.

Protect from freezing and physical damage.

## **SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

## Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Ethyl alcohol	64-17-5	ACGIH TLV TWA 1,000 ppm
	Ethyl alcohol	64-17-5	ACGIH TLV STEL 1,000 ppm
United States (OSHA)	Ethyl alcohol	64-17-5	OSHA PEL TWA 1,000 ppm
	Ethyl alcohol	64-17-5	OSHA PEL TWA 1,900 mg/m <sup>3</sup>
NIOSH	Ethyl alcohol	64-17-5	NIOSH REL TWA 1,000 ppm
	Ethyl alcohol	64-17-5	NIOSH REL TWA 1,900 mg/m <sup>3</sup>

## **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

# Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Use explosion-proof ventilation equipment.

#### Personal protection equipment

## Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing.

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

#### Information on basic physical and chemical properties

Appearance (physical state, color):	Yellow liquid
Odor:	Strong odor of cinnamon and alcohol

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Odor threshold:	Not available
pH-value:	Not available
Melting/Freezing point:	Not available
Boiling point/range:	78°C
Flash point:	17°C
Evaporation rate:	Not available
Flammability (solid, gaseous):	Not available
Explosion limit upper:	24.5%
Explosion limit lower:	3.3%
Vapor pressure:	Not available
Vapor density:	Not available
Density:	Not available
Relative density:	Not available
Solubilities:	Not determined or not available.
Partition coefficient (n-octanol/water):	Not available
Auto/Self-ignition temperature:	362°C
Decomposition temperature:	Not available
Dynamic viscosity:	Not available
Kinematic viscosity:	Not available
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

# **Other information**

# SECTION 10: Stability and reactivity

#### **Reactivity:**

Does not react under normal conditions of use and storage.

#### **Chemical stability:**

Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

None under normal conditions of use and storage.

# **Conditions to avoid:**

Excess heat, ignition source or flames.

## Incompatible materials:

None known.

### Hazardous decomposition products:

None known.

#### **SECTION 11: Toxicological information**

### Acute toxicity

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available.

### Skin corrosion/irritation

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

Product data: No data available.

## Substance data:

Name	Result
Cinnamaldehyde	Causes skin irritation

# Serious eye damage/irritation

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

Product data: No data available.

# Substance data:

Name	Result
Cinnamaldehyde	Causes eye irritation

## Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data: No data available.

# Substance data:

Name	Result
	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals

#### Carcinogenicity

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

Product data: No data available.

Substance data: No data available.

# International Agency for Research on Cancer (IARC):

Name	Classification
Ethyl alcohol	Group 1 - Carcinogenic to humans

# National Toxicology Program (NTP): None of the ingredients are listed.

#### Germ cell mutagenicity

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

Product data: No data available.

Substance data: No data available.

#### Reproductive toxicity

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

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (single exposure)

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

Product data: No data available.

#### Substance data:

Name	Result
-	Specific target organ toxicity - single exposure. Inhalation - May cause respiratory irritation

# Specific target organ toxicity (repeated exposure)

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Assessment: Based on available data, the classification criteria are not met. Product data: No data available.

Substance data: No data available.

# **Aspiration toxicity**

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

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

# **SECTION 12: Ecological information**

## Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

## Persistence and degradability

Product data: No data available. Substance data: No data available.

# **Bioaccumulative potential**

Product data: No data available. Substance data: No data available.

# Mobility in soil

Product data: No data available. Substance data: No data available.

Other adverse effects: No data available.

# **SECTION 13: Disposal considerations**

## **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

# **SECTION 14: Transport information**

## **Canadian Transportation of Dangerous Goods (TDG)**

UN number	1170
UN proper shipping name	Ethyl Alcohol Solution
UN transport hazard class(es)	3
Packing group	Ш

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Environmental hazards	None
Special precautions for user	None

# International Maritime Dangerous Goods (IMDG)

UN number	1170	
UN proper shipping name	Ethyl Alcohol Solution	
UN transport hazard class(es)	3	romer con
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

# International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	1170
UN proper shipping name	Ethyl Alcohol Solution
UN transport hazard class(es)	3
Packing group	11
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
Bulk Name	None	
Ship type	None	
Pollution category	None	

# **SECTION 15: Regulatory information**

# **Canada regulations**

### Domestic substances list (DSL):

14371-10-9	Cinnamaldehyde	Not Listed
64-17-5	Ethyl alcohol	Listed

Non-domestic substances list (NDSL): Not determined.

# **SECTION 16: Other information**

# Abbreviations and Acronyms: None

#### **Disclaimer:**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility

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to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 2-3-0

HMIS: 2-3-0

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End of Safety Data Sheet