According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.15.2018

Nicotine Solution, 100ml

## **SECTION 1: Identification**

# Product identifier

Product name: Nicotine Solution, 100ml Product code: NC1000

# 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: United States ChemTel Inc +1(800)255-3924 +1(813)248-0585

# **SECTION 2: Hazard identification**

# **GHS classification:**

Acute toxicity (oral), category 4 Acute toxicity (dermal), category 3 Acute aquatic hazard, category 1 Chronic aquatic hazard, category 1

# Label elements

# Hazard pictograms:



## Signal word: Danger

## Hazard statements:

H302 Harmful if swallowed H311 Toxic in contact with skin H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects

# **Precautionary statements:**

P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when using this product Page 1 of 9

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P280 Wear protective gloves/protective clothing/eye protection/face protection
P273 Avoid release to the environment
P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P322 Specific measures (see supplemental first aid instructions on this label)
P361 Immediately remove/take off all contaminated clothing
P363 Wash contaminated clothing before reuse
P302+P352+P312 If on skin: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell
P391 Collect spillage
P405 Store locked up
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: 7732-18-5	Deionized water	>99.25
CAS number: 532-32-1	Sodium benzoate	<0.25
CAS number: 54-11-5	Nicotine	<0.5

#### 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 Get medical advice/attention if you feel unwell

## After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention Immediately remove all contaminated clothing Wash affected area with soap and water Seek medical attention if symptoms develop or persist Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

## After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes Remove contact lenses, if present and easy to do Continue rinsing Get medical advice/attention

#### After ingestion:

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Rinse mouth and then drink plenty of water Do not induce vomiting Get medical advice/attention if you feel unwell Call a POISON CONTROL CENTER or seek medical attention if you feel unwell

## 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.

#### 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 appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

# Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8 Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

## Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion Shut off sources of ignition Carbon monoxide and carbon dioxide may form upon combustion

#### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

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

## Methods and material for containment and cleaning up:

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

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## **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 with adequate ventilation.

## Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area. Store away from foodstuffs.

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

Only those substances with limit values have been included below.

## **Occupational Exposure limit values:**

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

## **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.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

# 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. Perform routine housekeeping. Wash contaminated clothing before reusing.

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

### Information on basic physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid
Odor:	Mild sweet odor
Odor threshold:	Not determined or not available.

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pH-value:	10.2
Melting/Freezing point:	0°C
Boiling point/range:	100°C
Flash point:	101°C (214°F)
Evaporation rate:	< 1
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	0.051 hPa (0.038 mmHg) at 25°C (77°F)
Vapor density:	5.6 - (Air = 1.0)
Density:	Not determined or not available.
Relative density:	1.010 g/cm <sup>3</sup> at 20°C (68°F)
Solubilities:	Soluble in water.; Soluble in ethanol: 50 g/l
Partition coefficient (n-octanol/water):	log Pow: 1.17
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or 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:**

None known.

## Incompatible materials:

None known.

# Hazardous decomposition products:

None known.

## **SECTION 11: Toxicological information**

## Acute toxicity

Assessment: Harmful if swallowed Toxic in contact with skin Product data: No data available. Substance data:

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Name	Route	Result
Nicotine	oral	LD50 - Rat - 50 mg/kg
	dermal	LD50 - Rabbit - 50 mg/kg
	inhalation	ATE : 0.19 mg/l ( Dust or fog). Fatal if inhaled.

# Skin corrosion/irritation

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

Product data: No data available.

Substance data: No data available.

# Serious eye damage/irritation

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

Product data: No data available.

# Substance data:

Name	Result
Sodium benzoate	Causes serious eye irritation.

# **Respiratory or skin sensitization**

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

Product data: No data available.

Substance data: No data available.

# 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):** None of the ingredients are listed. **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.

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (repeated exposure)

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.

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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: Very toxic to aquatic life

Product data: No data available.

# Substance data:

Name	Result
Nicotine	LC50 - Fish - 96 H - 4 mg/l
	EC50 - Crustaceans - 48 H - 0.24 mg/l

#### 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	UN1654	
UN proper shipping name	Nicotine	
UN transport hazard class(es)	6.1	
Packing group	П	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	

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## **Nicotine Solution, 100ml**

## International Maritime Dangerous Goods (IMDG)

UN number	UN1654	
UN proper shipping name	Nicotine	
UN transport hazard class(es)	6.1	
Packing group	II	
Environmental hazards	Marine Pollutant	
Special precautions for user	None	

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

UN number	UN1654
UN proper shipping name	Nicotine
UN transport hazard class(es)	6.1
Packing group	11
Environmental hazards	Marine Pollutant
Special precautions for user	None

# **SECTION 15: Regulatory information**

#### Canada regulations

#### Domestic substances list (DSL):

7732-18-5	Deionized water	Listed
532-32-1	Sodium benzoate	Listed
54-11-5	Nicotine	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 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: 3-0-0

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HMIS: 3-0-0-X

Initial preparation date: 01.15.2018

End of Safety Data Sheet