According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.24.2017 Page 1 of 9

## **Nital Solution**

# **SECTION 1: Identification**

Product identifier

**Product name:** Nital Solution **Product code:** DUNI2010-Q

#### Recommended use of the product and restriction on use

**Relevant identified uses:** Not determined or not applicable. **Uses advised against:** Not determined or not applicable.

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

## Manufacturer or supplier details

Manufacturer: Supplier:

AquaPhoenix Scientific Dubois Chemicals Inc. 860 Gitts Run Road 3630 East Kemper Rd

Hanover Cincinnati
PA 17331 OH 45241
(717) 632-1291 (800) 438-2647

#### **Emergency telephone number:**

**United States** 

Emergency Phone No. (800) 255-3924

# **SECTION 2: Hazard identification**

## **GHS** classification:

Flammable liquids, category 3 Skin corrosion, category 1A

# **Label elements**

#### **Hazard pictograms:**





# Signal word: Danger

#### **Hazard statements:**

H226 Flammable liquid and vapor.

H314 Causes severe skin burns and eye damage.

## **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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According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.24.2017 Page 2 of 9

#### **Nital Solution**

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

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

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.

P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. P403+P235 Store in a well ventilated place. Keep cool.

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: 7697-37-2	Nitric Acid	10
CAS number: 64-17-5	Ethanol	90

**Additional Information: None** 

# **SECTION 4: First-aid measures**

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

#### **General notes:**

Not determined or not available.

#### **After inhalation:**

Move exposed individual to fresh air

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After skin contact:

Immediately remove all contaminated clothing

Wash affected area with soap and water

Immediately call a POISON CONTROL CENTER or seek medical attention

## After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After ingestion:

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.24.2017 Page 3 of 9

#### **Nital Solution**

Immediately call a POISON CONTROL CENTER or seek medical attention

Do not induce vomiting

Rinse mouth and then drink plenty of water

## 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 Water (fog only), 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:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

# **Special precautions:**

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and 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

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

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.24.2017 Page 4 of 9

## **Nital Solution**

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

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

# **SECTION 7: Handling and storage**

## Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Take precautionary measures against electrostatic discharges.

Use only non-sparking tools.

#### Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

## 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	Ethanol	64-17-5	ACGIH TLV TWA 1,000 ppm
	Nitric Acid	7697-37-2	ACGIH TLV TWA 2 ppm
	Nitric Acid	7697-37-2	ACGIH TLV STEL 4 ppm
	Ethanol	64-17-5	ACGIH TLV STEL 1,000 ppm
NIOSH	Ethanol	64-17-5	NIOSH REL TWA 1,000 ppm
	Ethanol	64-17-5	NIOSH REL TWA 1,900 mg/m <sup>3</sup>
	Nitric Acid	7697-37-2	NIOSH REL TWA 2 ppm
	Nitric Acid	7697-37-2	NIOSH REL TWA 5 mg/m <sup>3</sup>
	Nitric Acid	7697-37-2	NIOSH REL ST 4 ppm
	Nitric Acid	7697-37-2	NIOSH REL ST 10 mg/m <sup>3</sup>
United States (OSHA)	Nitric Acid	7697-37-2	OSHA PEL TWA 2 ppm
	Nitric Acid	7697-37-2	OSHA PEL TWA 5 mg/m³
	Ethanol	64-17-5	OSHA PEL TWA 1,000 ppm
	Ethanol	64-17-5	OSHA PEL TWA 1,900 mg/m <sup>3</sup>

#### **Biological limit values:**

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

# Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

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Initial preparation date: 02.24.2017 Page 5 of 9

## **Nital Solution**

#### 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. 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.

Wear appropriate clothing to prevent any possibility of skin contact.

## **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### **General hygienic measures:**

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

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

## Information on basic physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid
Odor:	Alcohol
Odor threshold:	Not available
pH-value:	Not available
Melting/Freezing point:	-110°C
Boiling point/range:	82°C
Flash point:	23.5°C
Evaporation rate:	>1
Flammability (solid, gaseous):	Not available
Explosion limit upper:	18.0
Explosion limit lower:	3.3
Vapor pressure:	Not available
Vapor density:	Not available
Density:	Not available
Relative density:	0.8-0.9
Solubilities:	Not determined or not available.
Partition coefficient (n-octanol/water):	Not available
Auto/Self-ignition temperature:	Not available
Decomposition temperature:	Not available
Dynamic viscosity:	Not available
Kinematic viscosity:	Not available

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.24.2017 Page 6 of 9

## **Nital Solution**

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

**Assessment:** Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

Name	Result
Nitric Acid	Causes severe skin burns and eye damage.

## Serious eye damage/irritation

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

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

## 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):

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.24.2017 Page 7 of 9

## **Nital Solution**

Name	Classification
Ethanol	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: 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.

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.

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.24.2017 Page 8 of 9

# **Nital Solution**

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

# **SECTION 14: Transport information**

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

UN number	UN2924
UN proper shipping name	Flammable Liquid, Corrosive, N.O.S. (Ethanol and Nitric Acid)
UN transport hazard class(es)	3
Packing group	II
Environmental hazards	None
Special precautions for user	None

# **International Maritime Dangerous Goods (IMDG)**

UN number	UN2924	
UN proper shipping name	Flammable Liquid, Corrosive, N.O.S. (Ethanol and Nitric Acid)	
UN transport hazard class(es)	3	
Packing group	II	
Environmental hazards	None	
Special precautions for user	None	

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

UN number	UN2924
UN proper shipping name	Flammable Liquid, Corrosive, N.O.S. (Ethanol and Nitric Acid)
UN transport hazard class(es)	3
Packing group	II
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	

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.24.2017 Page 9 of 9

**Nital Solution** 

# **SECTION 15: Regulatory information**

## Canada regulations

## **Domestic substances list (DSL):**

64-17-5	Ethanol	Listed
7697-37-2	Nitric Acid	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 the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-3-0 **HMIS:** 2-3-0

Initial preparation date: 02.24.2017

**End of Safety Data Sheet**