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CAN Titrant SS

SECTION 1: Identification

Product identifier

Product name: CAN Titrant SS **Product code: ND7505SS**

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:

Serious eye damage, category 1 Skin corrosion, category 1A Skin sensitization, category 1 Acute toxicity (oral), category 4 Acute aquatic hazard, category 1 Chronic aquatic hazard, category 1

Label elements

Hazard pictograms:







Signal word: Danger

Hazard statements:

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Generated by SDSPublisher (patent-pending) www.GSMSDS.com, 1-813-435-5161

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Precautionary statements:

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

P264 Wash skin thoroughly after handling.

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

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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.

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.

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

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

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: 16774-21-3 | Ceric Ammonium Nitrate | <32 |
| CAS number: 7664-93-9 | Sulfuric Acid | <10 |
| CAS number: 7732-18-5 | Water | >58 |

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

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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:

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 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

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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

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:

| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|---------------|------------|----------------------------------------|
| United States (OSHA) | Sulfuric Acid | 7664-93-9 | OSHA PEL TWA 1.0 mg/m ³ |
| ACGIH | Sulfuric Acid | 7664-93-9 | ACGIH TLV 0.2 mg/m³, thoracic fraction |
| | Sulfuric Acid | 7664-93-9 | ACGIH TLV STEL 3.0 mg/m ³ |
| NIOSH | Sulfuric Acid | 7664-93-9 | NIOSH REL TWA 1.0 mg/m ³ |

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.

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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, orange colored liquid |
|------------------------------------------|----------------------------------|
| Odor: | Odorless |
| Odor threshold: | Not available |
| pH-value: | <3 |
| Melting/Freezing point: | Approx. 0°C |
| Boiling point/range: | Approx. 100°C |
| Flash point: | Not available |
| Evaporation rate: | Not available |
| Flammability (solid, gaseous): | Not available |
| Explosion limit upper: | Not available |
| Explosion limit lower: | Not available |
| Vapor pressure: | Not available |
| Vapor density: | >1 |
| Density: | Not available |
| Relative density: | Approx. 1.05 |
| 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 |
| 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.

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Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Harmful if swallowed **Product data:** No data available.

Substance data:

| Name | Route | Result |
|------------------------|-------|----------------------------------------------|
| Ceric Ammonium Nitrate | oral | LD50 Oral - Rat - female - 300 - 2,000 mg/kg |

Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data: No data available.

Substance data:

| Name | Result |
|------------------------|------------------------------------------|
| Ceric Ammonium Nitrate | Causes skin irritation |
| Sulfuric Acid | Causes severe skin burns and eye damage. |

Serious eye damage/irritation

Assessment: Causes serious eye damage

Product data: No data available.

Substance data:

| Name | Result |
|------------------------|---------------------------|
| Ceric Ammonium Nitrate | Causes serious eye damage |

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data: No data available.

Substance data:

| Name | Result |
|------------------------|--------------------------------------|
| Ceric Ammonium Nitrate | May cause an allergic skin reaction. |

Carcinogenicity

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

Product data: No data available.

Substance data:

| Name | Species | Result |
|---------------|---------------------------------------------------------|--------------------------------|
| Sulfuric Acid | Strong Inorganic Acid Mists Containing Sulfuric Acid | Known to be human carcinogens. |

International Agency for Research on Cancer (IARC):

| Name | Classification |
|---------------|----------------------------------|
| Sulfuric Acid | Group 1 - Carcinogenic to humans |

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National Toxicology Program (NTP):

| Name | Classification |
|---------------|-------------------------------|
| Sulfuric Acid | Known to be human carcinogens |

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)

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: Very toxic to aquatic life **Product data:** No data available.

Substance data:

| Name | Result |
|------------------------|---------------------------------------------------------------|
| Ceric Ammonium Nitrate | LC50 - Oncorhynchus mykiss (rainbow trout) - 0.14 mg/l - 96 h |

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.

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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 | UN1760 | |
|-------------------------------|----------------------------------------------------|-----------|
| UN proper shipping name | Corrosive Liquids, N.O.S. (Sulfuric Acid Solution) | |
| UN transport hazard class(es) | 8 | CORROSIVE |
| Packing group | II | |
| Environmental hazards | Marine Pollutant | |
| Special precautions for user | None | |

International Maritime Dangerous Goods (IMDG)

| UN number | UN1760 | |
|-------------------------------|----------------------------------------------------|-----------|
| UN proper shipping name | Corrosive Liquids, N.O.S. (Sulfuric Acid Solution) | |
| UN transport hazard class(es) | 8 | CORROSIVE |
| Packing group | II | |
| Environmental hazards | Marine Pollutant | |
| Special precautions for user | None | |

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

| UN number | UN1760 | |
|-------------------------------|----------------------------------------------------|-----------|
| UN proper shipping name | Corrosive Liquids, N.O.S. (Sulfuric Acid Solution) | |
| UN transport hazard class(es) | 8 | CORROSIVE |
| Packing group | II | |

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| Environmental hazards | Marine Pollutant |
|------------------------------|------------------|
| 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):

| 16774-21-3 | Ceric Ammonium Nitrate | Listed |
|------------|------------------------|--------|
| 7664-93-9 | Sulfuric Acid | Listed |
| 7732-18-5 | Water | 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: 2-0-1 **HMIS:** 2-0-1

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End of Safety Data Sheet