9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291

Emergency Telephone No.: 800-255-3924

# **Material Safety Data Sheet**

### **Section 1 – Chemical Product and Company Identification**

Catalog Numbers: AD1596, AD1596-DB, AD1598

Product Identity: OP Titrant, Organophosphonate Solution No. 2

**Chemical Family:** Not Applicable **Synonyms:** Not Applicable

**Recommended Use:** Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291

Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 1/8/07

Revision Date: 6/5/08, 04/16/10, 02/19/12

#### Section 2 – Hazard Identification

Emergency Overview: Non-flammable, non-corrosive, non-toxic. Does not present significant health

hazards. Wash areas of contact with water.

**Appearance:** Clear, purple colored liquid **Odor:** Odorless

Target Organs: Eyes, skin

Potential Health Effects/ Routes of Exposure:

**Eyes:** May cause slight irritation. **Skin:** May cause slight irritation

Ingestion: Large doses may cause upset stomach

**Inhalation:** Not likely to be a hazard

Chronic Effect / Carcinogenicity: None (IARC, NTP, OSHA)
Aggravated Medical Conditions No information available
These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

#### Section 3 – Composition, Information on Ingredients

Water, purified, CAS# 7732-18-5, 99-100% w/v

#### Section 4 – First Aid

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**Skin:** Flush with water for 15 minutes. Get medical assistance if irritation develops. **Ingestion:** DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give

oxygen.

Notes to Physician Treat symptomatically.

## <u>Section 5 – Fire Fighting Measures</u>

Flash Point: Not Applicable Autoignition Temperature No information available. Explosion Limits Upper No data available Lower No data available Extinguishing Media: Use means suitable to extinguishing surrounding fire.

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-

approved breathing equipment.

Hazardous Combustion Products: No information Available Sensitivity to mechanical impact No information available. Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: No information available

NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

#### Section 6 - Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation.

Environmental Precautions Not relevant considering the small amounts used.

Methods for Containment and Clean Up Absorb with suitable material. Always obey local regulations.

## Section 7 - Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes.

**Storage:** Protect from freezing and physical damage.

#### Section 8 - Exposure Controls, Personal Protection

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety

showers are available.

**Personal Protection Equipment: Skin Protection:** Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation is

adequate

# Section 9 - Physical and Chemical Properties

Appearance/Physical State: Clear, purple colored liquid

Odor: Odorless% Volatility: No Information AvailableBoiling Point: Approx 100CSpecific Gravity: No Information AvailableMelting Point: Below 0Vapor Pressure: No Information Available

Vapor Density: No Information Available Flash Point: Not Applicable

**Evaporation Rate:** No Information Available **Coefficient of water/oil distribution:** Not Available

pH: No Information Available Odor Threshold: Not Available

Flammability: No Information Available Decomposition Temperature: No Information Available

Partition Coefficient n-octanol/water: No data

available

Solubility: Miscible

Relative Density: No Information Available Molecular Weight: Not available

## Section 10 – Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatible Materials:** Strong Oxidizing agents, Lithium, Bromine, Trifluoride.

**Conditions to Avoid:** No Information Available.

Hazardous Decomposition Products: Oxides of Sodium and fumes of Chloride

Hazardous Polymerization: Does not occur

Hazardous Reactions: None under normal processing.

#### Section 11 – Toxicological Information

# Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: No Information Available LC50 inhalation-rat: No Information Available

Irritation: No Information Available

**Toxicologically Synergistic:** No Information Available

**Chronic Exposure** 

Carcinogenicity No Information Available Sensitization No information available. Mutagenic Effects No information available.

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Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Total consists No information available.

**Teratogenicity** No information available.

Other Adverse Effects No Information Available.

**Endocrine Disruptor Information** No information available

# <u>Section 12 – Ecological Information</u>

**Ecotoxicity:** No Information Available

Persistence and Degradability: No Information Available Mobility: No Information Available

Bioaccumulation/ Accumulation: No Information Available

#### Section 13 - Disposal Considerations

Dilute with water. Comply with all local, state, and federal regulations.

## **Section 14 – Transport Information**

# **DOT - Not Regulated**

# Section 15 - Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are not considered hazardous by OSHA.

Canada DSL: Not available.

TSCA: The components of this solution are listed on the TSCA Inventory

SARA Title III Section 313: Not Applicable

RCRA Status: Not Applicable

**CERCLA Reportable Quantity:** Not Applicable

WHMIS: Not Applicable.

## Section 16 - Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained form the products use.

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Emergency Telephone No.: 800-255-3924

# **Material Safety Data Sheet**

#### <u>Section 1 – Chemical Product and Company Identification</u>

Catalog Numbers: AD1582, AD1582-100

Product Identity: OP Tablets

**Chemical Family:** Not Applicable **Synonyms:** Not Applicable

**Recommended Use:** Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291

Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 1/08/07

Revision Date: 06/05/08, 07/08/10, 02/19/12

#### Section 2 – Hazard Identification

## **Emergency Overview**

May cause irritation to the eyes, skin and respiratory system. May cause autonomic nervous system and gastrointestinal disorders. Wash areas of contact with water.

Appearance: Small Solid Tablet Odor: Odorless

Target Organs: Eyes, skin, nervous system, gastrointestinal system, respiratory system

Potential Health Effects/ Routes of Exposure:

Eyes: May cause irritation.

Skin: May cause irritation and dermatitis.

**Ingestion:** Large doses may cause upset stomach **Inhalation:** May cause respiratory tract irritation.

Chronic Effect / Carcinogenicity: No information found. (IARC, NTP, OSHA)

**Aggravated Medical Conditions** No information available These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

#### Section 3 – Composition, Information on Ingredients

Adipic Acid, CAS# 124-04-9, 100% w/w

#### Section 4 – First Aid

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**Skin:** Flush with water for 15 minutes. Get medical assistance if irritation develops. **Ingestion:** DO NOT induce vomiting. Dilute with water or milk. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give

oxygen.

**Notes to Physician** Treat symptomatically.

#### **Section 5 – Fire Fighting Measures**

Flash Point: 196C Autoignition Temperature 420C

**Explosion Limits Upper** No data available **Lower** No data available

Extinguishing Media: Use water spray, dry chemical, chemical foam or carbon dioxide

Unsuitable Extinguishing Media: No information available

Fire & Explosion Hazards: No information available.

Fire Fighting Instructions / Equipment: Use normal procedures. Use protective clothing. Use NIOSH-

approved breathing equipment.

Hazardous Combustion Products: No information Available Sensitivity to mechanical impact No information available. Sensitivity to static discharge No information available.

Specific Hazards Arising from the Chemical: Keep away from heat source.

NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

#### **Section 6 – Accidental Release Measures**

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** No information available

Methods for Containment and Clean Up Sweep up and containerize for disposal.

# Section 7 - Handling and Storage

**Handling:** Wash hands after handling. Avoid contact with skin and eyes.

Storage: Protect from freezing and physical damage. Store away from bases and oxidizing agents

### Section 8 - Exposure Controls, Personal Protection

Adipic Acid, CAS# 124-04-9, ACGIH TLV: 5mg/m3, OSHA PEL: NA

**Engineering Measures/ General Hygiene:** Normal ventilation is adequate. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. Respiratory Protection: Normal ventilation is

adequate

#### Section 9 - Physical and Chemical Properties

Appearance/Physical State: Small Solid Tablets

Odor: Odorless % Volatility: No Information Available
Boiling Point: 337C Specific Gravity: No Information Available
Welting Point: 152C Vapor Pressure: No Information Available

Vapor Density: 5.04 Flash Point: Not Applicable

Evaporation Rate: No information available Coefficient of water/oil distribution: Not Available

pH: No Information Available Odor Threshold: Not Available

Flammability: No Information Available Decomposition Temperature: No Information Available

Solubility: No Information Available Partition Coefficient n-octanol/water: No data

available

Relative Density: No Information Available Molecular Weight: No Information Available

#### Section 10 - Stability and Reactivity

**Chemical Stability:** Under normal conditions product is stable.

Incompatible Materials: Strong oxidizing Agents, bases, strong reducing agents

Conditions to Avoid: Avoid dust, air, and heat.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide.

Hazardous Polymerization: Does not occur

Hazardous Reactions: None under normal conditions

#### Section 11 - Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2

LD50 orl-rat: >11g/Kg LC50 inhalation-rat: NA

Irritation: No Information Available

Toxicologically Synergistic: No Information Available

**Chronic Exposure** 

Carcinogenicity No Information Available

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**Sensitization** No information available.

Mutagenic Effects No Information Available.

Reproductive Effects No information available.

Developmental Effects (Immediate/Delayed) No information available.

Teratogenicity No information available.

Other Adverse Effects No information available.

**Endocrine Disruptor Information** No information available

#### Section 12 – Ecological Information

**Ecotoxicity:** No information Available

Persistence and Degradability: No Information Available Mobility: No Information Available

Bioaccumulation/ Accumulation: No Information Available

## Section 13 - Disposal Considerations

Dilute with water.

**Waste Disposal/Waste Disposal of Packaging:** All chemical waster generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

# Section 14 – Transport Information

#### **DOT - Not Regulated**

## Section 15 – Regulatory Information (not meant to be all inclusive)

**OSHA Status:** These chemicals are not considered hazardous by OSHA.

**Canada DSL:** All ingredients are listed on Canada's DSL list. **TSCA:** The component is listed on the TSCA Inventory.

SARA Title III Section 313: Not Applicable

RCRA Status: Not Applicable

CERCLA Reportable Quantity: 5000 lb

WHMIS: Non-controlled

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

## Section 16 - Additional Information

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