according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 02.12.2015

### **Ammonium Persulfate, ACS**

# SECTION 1: Identification of the substance/mixture and of the supplier

**Product name**: Ammonium Persulfate, ACS

Manufacturer/Supplier Article number: AP1005

Recommended uses of the product and restrictions on use: Laboratory Chemicals

#### **Manufacturer Details:**

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

### **Emergency telephone number:**

ChemTel: (24-hour)

+1(800)255-3924

+1(813)248-0585 (International)

#### **SECTION 2: Hazards identification**

### Classification of the substance or mixture:



#### Oxidizing

Oxidizing solids, category 3

### Irritant



Acute toxicity (oral, dermal, inhalation), category 4 Skin irritation, category 2 Eye irritation, category 2A Skin sensitization, category 1

Specific target organ toxicity following single exposure, category 3



# **Health hazard**

Respiratory sensitization, category 1

Oxid. Sol 3.

Aq. ChrTox. 3.

AcTox. Oral 4.

AcTox. Dermal 4.

Skin. Irrit 2.

Eye. Irrit 2A.

Resp. Sens. 1.

Skin. Sens 1.

STOT SE. 3.

Aq. AcTox. 3.

Signal word: Danger

# **Hazard statements:**

May intensify fire; oxidizer.

Harmful if swallowed.

Harmful in contact with skin.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

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May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

## **Precautionary statements:**

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

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

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

In case of inadequate ventilation wear respiratory protection.

Keep/Store away from clothing/combustible materials.

Take any precaution to avoid mixing with combustibles.

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

Wash skin thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

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

Avoid release to the environment.

If eye irritation persists get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Take off contaminated clothing and wash before reuse.

In case of fire, use agents recommended in section 5 for extinction.

IF ON SKIN: Wash with soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

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

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

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

Store in a well ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents and container as instructed in Section 13.

#### Other Non-GHS Classification: None

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

#### **Ingredients:**

Ingredients:				
CAS 7727-54-0	Diammonium peroxodisulphate	100 %		
		Percentages are by weight		

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

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

#### After inhalation:

Seek medical assistance. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position.

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#### After skin contact:

Seek medical assistance. Wash hands and exposed skin with soap and plenty of water.

# After eye contact:

Seek medical assistance. Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses, if present and easy to do, and continue rinsing.

#### After swallowing:

Seek medical assistance. Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed:

Irritation. Shortness of breath, Headache, Nausea, Dizziness, Skin irritation varies.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

## **SECTION 5: Firefighting measures**

## **Extinguishing media**

## Suitable extinguishing agents:

May intensify fire; oxidiser.Use water spray to cool unopened containers. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

# Unsuitable extinguishing agents: None

## Special hazards arising from the substance or mixture:

Combustible dust formation is a risk. Thermal decomposition can lead to release of irritating gases and vapors.

#### Advice for firefighters:

# **Protective equipment:**

Wear protective eyeware, gloves, and clothing. Refer to Section 8.

# Additional information (precautions):

Avoid dust generation. 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 that air-handling systems are operational.

# **Environmental precautions:**

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

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

Wear protective eyeware, gloves, and clothing. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Refer to Section 8.

## Reference to other sections: None

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

### Precautions for safe handling:

Avoid dust generation. Avoid contact with skin, eyes and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Refer to Section 13.

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

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage.

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Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

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









**Control parameters:** 7727-54-0, Diammonium peroxodisulphate, TWA 0.1 mg/m3 USA. ACGIH.

**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.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

**Eye protection:** Face shield and tightly fitting goggles are appropriate eye protection.

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes and

clothing. Before re-wearing, wash contaminated clothing.

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

Appearance (physical state, color):		Explosion limit lower: Explosion limit upper:	Not determined Not determined
Odor:	Odorless	Vapor pressure at 20°C:	Not determined
Odor threshold:	Not determined	Vapor density:	7.88 - (Air = 1.0)
pH-value:	3 (100g/L)	Relative density:	1.980 g/cm3
Melting/Freezing point:	Not determined	Solubilities:	Soluble in water: Completely 228 g/l at 20 °C
Boiling point/Boiling range:	INIAT ABTERMINEA	Partition coefficient (noctanol/water):	Not determined
Flash point (closed cup):	Not determined	Auto/Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition temperature:	120 °C
Flammability (solid		Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined
Density at 20°C:	Not determined		

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date: : 02.12.2015** 

#### **Ammonium Persulfate, ACS**

# **SECTION 10: Stability and reactivity**

#### Reactivity:

Nonreactive under normal conditions.

### **Chemical stability:**

Stable under normal conditions.

#### Possible hazardous reactions:

None under normal processing.

#### **Conditions to avoid:**

Dust generation. Air, light, and moisture sensitive. Incompatible materials.

#### **Incompatible materials:**

Reducing agents, metals, finely powdered metals, aluminum, copper, magnesium, iron, silver, zinc, lead, nickel, combustible materials.

## **Hazardous decomposition products:**

Nitrogen oxides. Sulfur oxides. Carbon oxides. Ammonia.

# **SECTION 11: Toxicological information**

## **Acute Toxicity**:

#### Dermal:

LD50 Dermal - rat - > 2,000 mg/kg 7727-54-0.

**Chronic Toxicity**: No additional information.

**Skin corrosion/irritation**: No additional information.

Serious eye damage/irritation:

Eyes - rabbit Result: Mild eye irritation 7727-54-0.

## Respiratory or skin sensitization:

- guinea pig Result: Causes sensitisation.

Carcinogenicity: No additional information.

**Germ cell mutagenicity**: No additional information. **Reproductive Toxicity**: No additional information.

#### STOT-single and repeated exposure:

May cause respiratory irritation

## Additional toxicological information:

No additional information.

## **SECTION 12: Ecological information**

#### **Ecotoxicity:**

7727-54-0, LC50 - Oncorhynchus mykiss (rainbow trout) - 76 mg/l - 96 h.

7727-54-0, EC50 - Daphnia magna (Water flea) - 120 mg/l - 48 h.

**Persistence and degradability**: No additional information. **Bioaccumulative potential**: No additional information.

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date: : 02.12.2015** 

#### **Ammonium Persulfate, ACS**

Mobility in soil: No additional information.

Other adverse effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

### **SECTION 13: Disposal considerations**

## Waste disposal recommendations:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

## **SECTION 14: Transport information**

#### **US DOT**

**UN Number:** 

ADR, ADN, DOT, IMDG, IATA 1444

Limited Quantity Exception: None

Bulk:

**RQ** (if applicable): None

Proper shipping Name: Ammonium

persulfate. **Hazard Class:** 5

Packing Group: III.

Marine Pollutant (if applicable): No

additional information. **Comments:** None

Non Bulk:

**RQ** (if applicable): None

Proper shipping Name: Ammonium

persulfate.

Hazard Class: 5
Packing Group: III.

Marine Pollutant (if applicable): No

additional information. **Comments:** None





## **SECTION 15: Regulatory information**

#### **United States (USA)**

SARA Section 311/312 (Specific toxic chemical listings):

Acute,Reactive

SARA Section 313 (Specific toxic chemical listings):

7727-54-0 Diammonium peroxodisulphate.

RCRA (hazardous waste code):

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date: : 02.12.2015** 

#### **Ammonium Persulfate, ACS**

None of the ingredients are listed.

#### TSCA (Toxic Substances Control Act):

All ingredients are listed.

### CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

#### Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

## Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

#### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

## Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Canada

### Canadian Domestic Substances List (DSL):

All ingredients are listed.

#### **SECTION 16: Other information**

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. Note. 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

GHS Full Text Phrases: None

Abbreviations and Acronyms: None