according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.12.2015 Page 1 of 7

#### **Ammonium Nitrate,**

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

Product name : Ammonium Nitrate,

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25160

Recommended uses of the product and uses restrictions on use:

**Manufacturer Details:** 

AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331

### **Supplier Details:**

Fisher Science Education 15 Jet View Drive, Rochester, NY 14624

### **Emergency telephone number:**

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

## Classification of the substance or mixture:



### Oxidizing

Oxidizing solids, category 3



#### Irritant

Skin irritation, category 2 Eye irritation, category 2A

Specific target organ toxicity following single exposure, category 3

Oxid. Sol 3 Skin. Irrit 2 Eye. Irrit 2A STOT SE. 3

Signal word: Warning

#### Hazard statements:

May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation

May cause respiratory irritation

#### **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

Keep/Store away from clothing/combustible materials

Take any precaution to avoid mixing with combustibles

Avoid breathing dust/fume/gas/mist/vapours/spray

Wash skin thoroughly after handling

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.12.2015 Page 2 of 7

#### **Ammonium Nitrate,**

Use only outdoors or in a well-ventilated area

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

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

Call a POISON CENTER or doctor/physician if you feel unwell

Specific treatment (see supplemental first aid instructions on this label)

If skin irritation occurs: Get medical advice/attention If eye irritation persists get medical advice/attention Take off contaminated clothing and wash before reuse

In case of fire: Use agents recommended in section 5 for extinction

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:

# WHMIS NFPA/HMIS







HMIS RATINGS (0-4)

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

Ingredients:			
CAS 6484-52-2	Ammonium nitrate	>95 %	
	F	Percentages are by weight	

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

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

After inhalation: Immediately seek medical attention. 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.

After skin contact: Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

After eye contact: Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Seek medical attention if irritation persists or concerned.

After swallowing: Rinse mouth with water.Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention if irritation, discomfort, or vomiting persists.

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

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.12.2015 Page 3 of 7

#### **Ammonium Nitrate,**

Irritation.Shortness of breath.Headache.Nausea.Dizziness.;Inhalation - May cause respiratory irritation.Stomach - Irregularities - Based on Human Evidence. Gastrointestinal disturbance, Blood disorders,

#### 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:** Use water spray to cool unopened containers. Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

# For safety reasons unsuitable extinguishing agents:

#### Special hazards arising from the substance or mixture:

Remove heat, sparks, and all sources of ignition. 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:

Use explosion-proof equipment. 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:

Sweep up and shovel. Contain spillage. Collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations. Wear protective eyeware, gloves, and clothing. Refer to Section 8. 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.

## Reference to other sections:

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

## Precautions for safe handling:

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

## Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

## SECTION 8: Exposure controls/personal protection





according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.12.2015 Page 4 of 7

#### **Ammonium Nitrate,**

**Control Parameters:** No applicable occupational exposure limits

**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:** Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

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

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

clothing. Before rewearing wash contaminated clothing.

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

Appearance (physical state,color):	White powder	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Not Determined	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	4.5 - 6.0 at 80.40 g/l at 25 °C	Relative density:	1.72 g/cm3 at 20 °C
Melting/Freezing point:	169 °C	Solubilities:	Soluble in water: 2,130 g/l at 25 °C
Boiling point/Boiling range:	210 °C	Partition coefficient (noctanol/water):	Not Determined
Flash point (closed cup):	>93.3 °C	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Flammable	Viscosity:	a. Kinematic:Not Determined b. Dynamic: Not Determined

**Density**: Not Determined

**6484-52-2**: The substance or mixture is classified as oxidizing with the category 3.

## SECTION 10: Stability and reactivity

Reactivity: Hygroscopic.

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.12.2015 Page 5 of 7

#### **Ammonium Nitrate,**

Chemical stability: Stable under normal conditions.

**Possible hazardous reactions:** None under normal processing.

**Conditions to avoid:**Heat.Incompatible materials.

Incompatible materials: Reducing agents, Powdered metals, Strong acids

**Hazardous decomposition products:** Nitrogen oxides.

## **SECTION 11: Toxicological information**

Acute Toxicity:			
Oral:	6484-52-2	LD50 Oral - rat - 2,217 mg/kg	
Chronic Toxicity: No additional information.			
Corrosion Irritation: No additional information.			
Sensitization:		No additional information.	
Single Target Organ (STOT):		Inhalation - May cause respiratory irritation.	
Numerical Measures:		No additional information.	
Carcinogenicity:		No additional information.	
Mutagenicity:		No additional information.	
Reproductive Toxicity:		No additional information.	

#### **SECTION 12: Ecological information**

**Ecotoxicity Persistence and degradability:** 

**Bioaccumulative potential:** 

Mobility in soil:

Other adverse effects:

#### **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. 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**

#### **UN-Number**

1942

### **UN proper shipping name**

Ammonium nitrate

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.12.2015 Page 6 of 7

#### **Ammonium Nitrate,**

### Transport hazard class(es)



Class:

5.1 Oxidizing substances

Packing group: III

**Environmental hazard:** 

Transport in bulk:

**Special precautions for user:** 

### SECTION 15: Regulatory information

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

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

Reactive, Acute, Chronic

## SARA Section 313 (Specific toxic chemical listings):

6484-52-2 Ammonium nitrate

#### RCRA (hazardous waste code):

None of the ingredients is listed

## TSCA (Toxic Substances Control Act):

All ingredients are listed.

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

None of the ingredients is listed

# Proposition 65 (California):

## Chemicals known to cause cancer:

None of the ingredients is listed

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

None of the ingredients is listed

# Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

#### Chemicals known to cause developmental toxicity:

None of the ingredients is listed

#### Canada

## Canadian Domestic Substances List (DSL):

All ingredients are listed.

# Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

## Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is 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

according to 29CFR1910/1200 and GHS Rev. 3

**Effective date**: 02.12.2015 Page 7 of 7

#### **Ammonium Nitrate,**

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.

**GHS Full Text Phrases:** 

Abbreviations and acronyms:

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