

BHS Marketing

Western Briquette

MATERIAL SAFETY DATA SHEET AMMONIUM SULFATE REGULAR GRADE

Date: January 09, 2003

I Company Identification

Company Name: BHS Marketing / Western Briquette
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II Product Identification

Product Name: Ammonium Sulfate Regular
Chemical Type: Salt
Common Name: Ammonium Sulfate 21-0-0
Cas Number: 7783-20-2
Chemical Formula: $(\text{NH}_4)_2\text{SO}_4$

III Typical Physical Properties

Physical Appearance: White or off-white crystals
pH: 10g/90g H₂O: 5.5-6.0
Boiling Point: Decomposed @ 455°F
Density: 66-69 lbs/ft³
Specific Gravity: 1.1
Vapor Pressure: Nil
Solubility in Water: 70g/100g H₂O cold, 100g/100g H₂O hot

IV Reactivity Data

Chemical Stability: Stable
Conditions to Avoid: None
Materials to Avoid: Oxidizers

Hazardous Decomposition

Products: Releases NH₃ and Sulfur Oxide fumes when decomposing

Hazardous Polymerization: Will not occur

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V Toxicological Information and Interpretation

Acute

Skin Irritation:

Aquatic Toxicity: Fish 96-hour LC₅₀ is greater than 13.6-159.8 mg total NH₃/L; daphnia 96-hour LC₅₀: greater than 27 mg total NH₃/L. Slightly toxic to aquatic organisms. (TFI Product Testing Results)

Dermal Toxicity: LD₅₀ (rat) is greater than 2,000 mg/kg (ppm); not acutely toxic by dermal exposure. (TFI Product Testing Results, OECD Guideline 402)

Oral Toxicity: LD₅₀ (rat) is 640-4,250 mg/kg; not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425)

VI Hazard Data

Acute

Eye Contact:

Slight eye abrasion possible

Skin Contact:

Slight abrasion possible. Prolonged contact may cause slight skin abrasion

Ingestion:

Small doses may cause mild discomfort. Used as a general purpose food additive for buffer and neutralizing agent

Inhalation:

Slight discomfort possible-causes readily reversible changes which disappear after end of exposure. Dust may cause further aggravation to those predisposed to respiratory problems

Effects of Overdose:

One reference lists that massive doses ingested or large doses administered under the skin, or in the blood stream, may cause diarrhea and there arises the possibility of sufficient absorption to produce dieresis and systemic ammonia poisoning. Another reference lists: UNKNOWN-no information on humans considered valid by authors

VII Recommended First Aid Measures

Eye Exposure:	Flush eyes with running water for 15 minutes. Seek medical attention if condition persists
Skin Exposure:	Wash skin with mild soap and water. Seek medical attention if condition persists
Ingestion Exposure:	If ingested in large amount, give 2-3 glasses of water and induce vomiting. Call a doctor
Inhalation Exposure:	Should cause no problems by inhalation

VIII Fire Fighting Measures

Flash Point:	Non-flammable
Extinguishing Media:	Used in a solution as a fire retardant and to fight fires. Use media suitable to extinguish source of fire
Special Fire Fighting Procedures:	Use media suitable to extinguish source of fire
Unusual Fire and Explosion Hazard:	Releases NH ₃ and Sulfur Oxides when decomposing. If accidentally mixed with oxidizers it will sensitize these materials and make them more reactive under fire conditions

IX Accidental Release Measures

Clean-up & Disposal of Spills:	Contain spill. Sweep up and scoop into suitable container for use or recycle. May be used as a fertilizer using good agronomic practices. Use or recycle. Consult local authorities
Environmental & Regulatory Reporting:	Keep out of waterways and all bodies of water. Do not contaminate any body of water by direct application, cleaning of equipment or disposal. Since Ammonium Sulfate is a fertilizer, it may promote algae growth in waterways

X Handling & Storage

Handling:	Avoid prolonged contact with skin. Use dust mask if material is dusty
Storage:	Separate from strong oxidizers such as chlorates, nitrates and nitrites. Store in a cool, dry area-preferably on pallets off of the floor

XI Exposure Controls/ Personal Protection

Appropriate Hygienic Practices:

As part of good industrial, personal hygiene and safety procedure, avoid all unnecessary exposure to the product and ensure prompt removal from eyes, skin and clothing. Maintain good housekeeping to control dust accumulations

Personal Protection Equipment

Eye Protection: Safety glasses with side shield. Eyewash fountain in area

Skin Protection: Normal clean work clothing. Gloves as needed

Inhalation Protection:

Ventilation Protection: Adequate ventilation for bulk storage

Respiratory Protection: Use dust mask if material is dusty

XII Additional Information

The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its accuracy and/or completeness. User should consult with experts in their review of this MSDS prior to use of the product.

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*n/a= Not Applicable