AERCHEM INC.

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SECTION 1: IDENTIFICATION

Effective Date: November 1994
Product Name: Ammonium Sulfate

Common Name: diammonium sulfate, ammonium sulfate

Chemical Formula: $(NH_4)_2 SO_4$ CAS No.: 7783-20-2

SECTION 2: HAZARDOUS INGREDIENTS:

Irritation may result from prolonged skin contact. Contact with dust or mist may cause eye irritation. Dust inhalation may irritate nose, throat and lungs. Irritation may develop in mouth, esophagus, stomach, etc. if swallowed. May cause purging.

SECTION 3: PHYSICAL DATA

Physical Data:

Appearance and Odor: gray to white granular or crystalline solid; slight

acrid odor

Boiling point:(760 mmHg) n/a
Vapor Pressure (mmHg): n/a
Specific Gravity (Water = 1): 1.77

Solubility in water: (by weight) 43.47% solution @ 25°C

Melting Point: n/a
Volatility: n/a
Vapor Density: n/a

SECTION 4: FIRE AND EXPLOSION DATA

Fire and Explosion Information:

Flash point: n/a Flammable limit: n/a

Extinguishing Media: Any standard agent may be used. If involved in fire,

flood with water.

Fire Fighting Procedures: Since toxic gases may be released violently at high

temperatures, firefighters should wear full protective clothing and NIOSH-approved, self-contained breathing apparatus. Use water to keep fire-exposed containers

apparatus. Ose water to keep me-exposed contamers cool.

Unusual Fire and Explosion Hazards: Decomposed at elevated temperatures to produce toxic

fumes of ammonia and sulfur oxides. If mixed with strong oxidizers such as potassium nitrate, nitrite or chlorate, a vigorous reaction or explosion may occur.

SECTION 5: REACTIVITY DATA

Reactivity Data:

 Stable _____X
 Unstable _____

Conditions to Avoid: Decomposes at temperatures above 280 °C (536°F)

Incompatibilities: Oxidizers - potassium salts: nitrite, nitrate, chlorate;

chlorine and hypochlorite. Avoid contact with zinc-clad,

copper and copper bearing materials.

Hazardous Decomposition or byproducts: ammonia and sulfur trioxide and sulfur dioxide gases

Hazardous Polymerization: will not occur

SECTION 6: HEALTH HAZARD DATA

Threshold Limit Value (TLV): Nuisance dust: 10 mg/m3 TLV-total

Permissible Exposure Limit: Nuisance dust: 15 mg/m3 TLV-total, 5 mg/m3 TLV - respirable

Toxicity:

Oral LD50 (rat): 3000 mg/kg

NTP:

IARC Monographs:

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

First Aid:

use

Eyes: Flush with plenty of water for at least 15 minutes. Get medical attention.

Skin: Wash promptly with soap and water and flush with water until chemical is removed.

Remove any contaminated clothing and wash before reuse. Get medical attention for

irritation.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen if a qualified operator is

available. Get medical attention for irritation or discomfort.

Ingestion: If conscious, drink 2 to 4 glasses of water and induce vomiting by touching back of

throat with finger.

Spillage: Wearing recommended protective equipment, shovel up large spills (dry chemical) for

or disposal. Sweep up small spills and maximize recover. Flush residue with water if

permitted by applicable disposal regulations.

Disposal: A use of the material is fertilizer, so waste material may be used as fertilizer. If

discarded into waterways, may promote eutrophication.

Disposal must be in accordance with regulations - consult

regulatory agencies.

SECTION 8: PRECAUTION TO BE TAKEN IN HANDLING AND STORING

Other Precautions: Store in cool, dry place away from strong oxidizers, such as chlorates, nitrates and

nitrites.

SECTION 9: SPECIAL PROTECTION INFORMATION

Ventilation: Provide local exhaust, if dusty conditions prevail

Eye Protection: Wear chemical safety goggles under dust or misty conditions. Do not wear contact lenses.

Respiratory Protection: Use dust or mist respirator (NIOSH) if dusty or misty conditions.

Other Protective Gear: Wear long sleeve shirt, trousers and gloves.

SECTION 10: TRANSPORT INFORMATION

DOT classification: not applicable

DOT pictograms: n/a