

Ammonium Sulphate

Company Information

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Product Identification

【Product Name】

Ammonium sulfate

【Synonyms】

Actamaster

Diammonium sulfate

Diazanium sulfate

Dolamin

Mascagnite

Sulfuric acid, diammonium salt

【CAS】

[7783-20-2](#)

【Formula】

H8N2O4S

【Molecular Weight】

132.13999999999999

【EINECS】

231-984-1

【RTECS】

BS4500000

【RTECS Class】

Agricultural Chemical and Pesticide; Mutagen; Human Data

【Merck】

13,559

【Beilstein/Gmelin】

6280 (G)

Physical and Chemical Properties

【Appearance】

White odorless solid.

【Solubility in water】

410 g/L

【Melting Point】

336 - 339

【Density】

1.78 g/cm³ (20 °C)

【Usage】

Manufacture of ammonia alum, in the manufacture of hydrogen sulfide to free it from nitrogen oxides, analytical uses, freezing mixtures, flameproofing fabrics and paper, manufacture viscose silk, tanning, galvanizing iron, in fractionation of proteins.

First Aid Measures

【Ingestion】

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

【Inhalation】

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

【Skin】

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

【Eyes】

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Handling and Storage

【Storage】

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

【Handling】

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Hazards Identification

【Inhalation】

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

【Skin】

May cause skin irritation.

【Eyes】

May cause eye irritation.

【Ingestion】

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

【EC Risk Phrase】

R 36/37/38

【EC Safety Phrase】

S 26 36

Exposure Controls/Personal Protection

【Personal Protection】

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

【Respirators】

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

【Exposure Effects】

Increases in blood pressure and pulse have been reported. An altered mental status (coma) may be seen, but is not characteristic unless hypoxemia occurs. Seizures may occur with extensive absorption. No data were available to assess the teratogenic potential of this agent.
Decreased egg production has occurred in experimental animals. Ammonia crosses the ovine placental barrier.
No data were available to assess the potential effects of exposure to this agent during lactation.
No information about possible male reproductive effects was found in available references.

【Poison Class】

5

Fire Fighting Measures

【Flash Point】

235

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use extinguishing media appropriate to the surrounding fire. Substance is nonflammable. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. Extinguishing media: Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Use agent most appropriate to extinguish fire. In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

【Fire Potential】

Nonflammable

Accidental Release Measures

【Small spills/leaks】

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation.

Stability and Reactivity

【Disposal Code】

14

【Incompatibilities】

Oxidizing agents.

【Stability】

Stable under normal temperatures and pressures.

【Decomposition】

Oxides of sulfur, irritating and toxic fumes and gases, nitric oxide (NOx) and ammonia (NH₃) fumes.

Transport Information

【HS Code】

3102 21 00