Chem Alert Report

Product Name ***AMMONIUM NITRATE.***

Ingredient	Conc.	CAS No.
AMMONIUM NITRATE	100%	6484-52-2

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

Shipping AMMONIUM NITRATE with not more than 0.2 % combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance

Synonyms AMMONIA NITRATE, AMMONIUM NITRATE, AR 00000049 - PRODUCT CODE, NITRATE OF AMMONIA, NITRIC ACID AMMONIA, TECH 00005054 - MANUFACTURER'S CODE, UL 00000050 - MANUFACTURER'S CODE, AMM

Appearance WHITE CRYSTALLINE SOLID

Odour ODOURLESS

Use(s) LABORATORY REAGENT, LABORATORY APPLICATIONS.

Supplier FRONINE LABORATORY SUPPLIES Ph: 02 9627 3600 Emerg. Ph: 13 11 26

Stock No. 506, 507.

Poison Sched None Allocated **Hazchem** 1[Y] **UN No.** 1942 **D.G Class** 5.1

Pkg Group III **EPG** 5A1 **Sub/Tert Risk** None Allocated

HEALTH HAZARDS

Health Hazard Summary Low to moderate toxicity - irritant. Avoid breathing vapours. Inhalation of spray or mist may cause shortness of breath, chest pain and asphyxia. Inhalation at high levels may cause methaemoglobinemia, where the blood's oxygen-carrying capacity is reduced.

Eye Irritant. Contact may result in lacrimation, irritation, pain, redness and conjunctivitis. Prolonged contact - corneal burns and possible permanent damage.

Inhalation Irritant - toxic vapours. No inhalation hazard is anticipated unless product is heated to decomposition or exploded evolving toxic nitrogen oxides. Symptoms of over exposure may include irritation, chest pain, breathing difficulties, methaemoglobinemia and pulmonary oedema. Symptoms may be delayed several hours.

Skin Low irritant. Prolonged and repeated contact may result in irritation, skin rash and dermatitis.

Ingestion Low toxicity. With large doses ingestion may result in nausea, vomiting and gastrointestinal irritation.

PRECAUTIONS

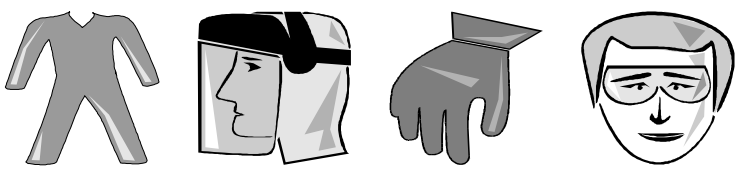
Flammability Non flammable - oxidising agent. Supports combustion and may cause fire/explosion in contact with incompatible substances (eg. strong acids, reducing agents, combustibles and flammables).

Reactivity Oxidising agent. Incompatible with heat, acids, metals, organic materials (eg. fuels), alkalis, reducing agents (active metals, sulfur, urea) and nitrites.

Ventilation Ensure adequate natural ventilation.

PERSONAL PROTECTIVE EQUIPMENT

PPE Wear coveralls, dust-proof goggles or a faceshield and PVC or rubber gloves. At high dust levels, wear a Class P1 (Particulate) Respirator. Where vapours are generated, wear an Air-line respirator.



Colour Rating AMBER

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FIRST AID

Eye Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.

Inhalation If exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

Skin Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed, do not induce vomiting.

SAFE HANDLING

Storage Store in cool, dry, well ventilated area, preferably in outdoor or detached store, removed from direct sunlight, heat and ignition sources, reducing agents (eg. active metals, sulfur), metals, organics (eg. fuels), nitrites, alkalis, acids and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

Waste Disposal For small amounts, emulsions can be destroyed using a 10% solution of TERIC GN8 (available from Orica Australia) and disposed of to an approved landfill site. For larger amounts of deteriorated or damaged quantities, contact the manufacturer.

Transport Class 5.1 Oxidising agent. Do not transport with chemicals of class; 1 (Explosives), 2.1/ 2.3 (Flammable/ Toxic gases), 3/ 4.1 (Flammable liquids/ solids), 4.2 (Spontaneously combustibles), 4 3 (Dangerous When Wet), 5.2 (Organic peroxides), 6 (Toxics), 7 (Radioactives), 8 (Corrosives), 9 (Miscellaneous) and foodstuffs.

EMERGENCY

Spillage If spilt (bulk), contact emergency services if appropriate. Wear dust-proof goggles, PVC/rubber gloves, a Class P1 (Particulate) respirator (where an inhalation risk exists), coveralls and rubber boots. Clear area of all unprotected personnel. Prevent spill entering drains or waterways. Collect and place in sealable containers for disposal or reuse. Avoid generating dust.

Environment Ammonium nitrate is a nutrient in water. Spills can cause massive algal blooms in static waters and affect local species population balance in the aquatic environment. If water is used to disperse ammonium nitrate spilled on soil, the solution produced can end up in the groundwater. Ammonium nitrate will be taken up by bacteria. Nitrate is more persistent in water than the ammonium ion.

Fire and Explosion Non flammable - will increase fire intensity by liberating oxygen. Evacuate area and contact emergency services. Toxic gases (nitrogen oxides) may be evolved when heated > 320 C. Move upwind and notify those downwind of hazard. DO NOT FIGHT FIRE. Use waterfog to cool intact containers. MAY EXPLODE WHEN HEATED, FROM PRESSURE, FRICTION OR SHOCK OR IF MIXED WITH INCOMPATIBLES.

Extinguishing Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

PHYSICAL AND CHEMICAL PROPERTIES

Flammability:	NON FLAMMABLE	**Flash Point**:	NOT RELEVANT
Boiling Point:	210 C	**Melting Point**:	170 C
Exposure Standard:	NOT AVAILABLE	**Evaporation Rate**:	NOT AVAILABLE
pH:	5.4 (0.1 M solution)	**% Volatiles**:	NOT AVAILABLE
Specific Gravity:	1.72	**Solubility (water)**:	366 g/100g
Vapour Pressure:	NOT AVAILABLE	**Upper Explosion Limit**:	NOT RELEVANT
Lower Explosion Limit:	NOT RELEVANT	**Decomposition Temperature**:	210 C

Last Reviewed : 01/01/2004
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