

Common Name: **AMMONIUM NITRATE**

Synonyms: Nitram; Ammonia Nitrate

CAS No: 6484-52-2

Molecular Formula: NH₄NO₃

RTK Substance No: 0106

Description: A colorless to white or gray, crystalline solid or granule

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<p>2 - Health</p> <p>0 - Fire</p> <p>3- Reactivity</p> <p>DOT ID #: UN 1942</p> <p>ERG Guide #: 140</p> <p>Hazard Class: 5.1 (Oxidizer)</p>	<p>Flood with water.</p> <p>DO NOT USE dry chemical, CO₂ or halogenated extinguishing agents.</p> <p>POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i> and <i>Ammonia</i>.</p> <p>CONTAINERS MAY EXPLODE IN FIRE</p> <p>Use water spray to keep fire-exposed containers cool.</p> <p>Evacuate in all directions for 1,600 meters (1 mile) if fire cannot be controlled.</p> <p>Protect from shock.</p>	<p>Ammonium Nitrate is a STRONG OXIDIZER and when contaminated with OIL, CHARCOAL or other ORGANIC MATERIALS, can EXPLODE and become SENSITIVE TO SHOCK.</p> <p>Ammonium Nitrate must be stored to avoid contact with REDUCING AGENTS; COMBUSTIBLES; STRONG ACID (such as HYDROCHLORIC, SULFURIC and NITRIC); POWDERED METALS; METAL SALTS; OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); PHOSPHORUS; UREA; and SULFUR.</p> <p>Ammonium Nitrate reacts with STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE).</p>

SPILL/LEAKS

Isolation Distance: 10 to 25 meters (30 to 80 feet)

Collect with a clean shovel and place in noncombustible containers.

Keep **Ammonium Nitrate** out of a confined space, such as a sewer, because of the possibility of an explosion.

This material may be hazardous to water quality but will biodegrade.

PHYSICAL PROPERTIES

Odor Threshold:	Odorless
Flash Point:	Nonflammable
LEL:	N/A
UEL:	N/A
Density:	1.7 g/cm ³
Water Solubility:	Soluble
Melting Point:	336°F (169°C) Decomposes at 410°F (210°C)
Ionization Potential:	No Information
pH:	5.4

EXPOSURE LIMITS

ACGIH:	N/A
OSHA:	N/A
NIOSH:	N/A
IDLH LEVEL:	N/A
PAC1:	6.7 mg/m ³
PAC2:	73 mg/m ³
PAC3:	440 mg/m ³

PROTECTIVE EQUIPMENT

Gloves:	Butyl or Neoprene
Coverall:	CHEMFAB Challenger® 5200
Boot:	Butyl or Neoprene
Respirator:	N95 for dusts or mists Supplied air for unknown levels or emergency

HEALTH EFFECTS

Eyes:	Irritation and burns
Skin:	Irritation and burns
Acute:	Nose, throat and lung irritation Methemoglobinemia with headache, fatigue and blue color to the skin and lips
Chronic:	Cancer - Not tested No information available

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes.

Remove contact lenses if worn.

Remove contaminated clothing. Wash contaminated skin with water.

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer to a medical facility.