

Common Name: AMMONIUM CARBONATE

Synonyms: Diammonium Carbonate; Hartshorn CAS No: 506-87-6 Molecular Formula: $(NH_4)_2CO_3$ RTK Substance No: 0092

Description: Colorless or white, crystalline powder with a strong Ammonia odor

HAZARD DATA					
Hazard Rating	Firefighting	Reactivity			
2 - Health	Extinguish fire using an agent suitable for type of surrounding fire. Ammonium Carbonate itself	Ammonium Carbonate is not compatible with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and			
0 - Fire	does not burn.	NITRIC); ACID SALTS; AMINES and other ALKALOIDS;			
1 - Reactivity	POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i> and <i>Ammonia</i> .	ALUM; CALOMEL (MERCURY CHLORIDE); SODIUM HYPOCHLORITE; IRON SALTS; and ZINC SALTS.			
DOT#: UN 3077	Use water spray to knock down vapors.				
ERG Guide #: 171	Sufficient amounts of Ammonia gas may be				
Hazard Class: 9 (Environmentally Hazardous Material)	generated in a fire to become an explosion hazard.				

SPILL/LEAKS

Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Collect powdered material in the most convenient and safe manner and place into sealed containers for disposal.

Cover with plastic sheeting.

Ammonium Carbonate is hazardous to the environment

EXPOSURE LIMITS

NIOSH: 25 ppm, 10-hr TWA; 35 ppm, STEL (as Ammonia)

The Protective Action Criteria values are:

PAC-1 = 0.31 mg/m³

 $PAC-2 = 3.5 \text{ mg/m}^3$

PAC-3 = 21 mg/m³

ΗΕΔΙ	_ТН	EFF	ECTS

Eyes:	Irritation
Skin:	Irritation
Inhalation:	Nose, throat and lung irritation with coughing and shortness of breath.

PHYSICAL PROPERTIES

Odor Threshold:	<i>Ammonia</i> odor
Flash Point:	Nonflammable
Specific Gravity:	1.5 (water = 1)
Water Solubility:	Soluble
Boiling Point:	Decomposes
Melting Point:	136.4°F (58°C)
Molecular Weight:	157.1

PROTECTIVE EQUIPMENT

Gloves:	Nitrile and Natural	Rubber

Coveralls: Tyvek®

Respirator: >0.31 mg/m³ - SCBA >25 ppm (as Ammonia) - SCBA

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.
- **Quickly** remove contaminated clothing and wash contaminated skin with large amounts of water.

Begin artificial respiration if breathing has stopped and CPR if necessary. **Transfer** promptly to a medical facility.