

#### 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. <b>Ammonium Carbonate</b> 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/m<sup>3</sup>

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

PAC-3 = 21 mg/m<sup>3</sup>

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/m<sup>3</sup> - 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.