

Washtenaw/Livingston MCA, HEMS MCA
System Protocols - Hazardous Materials Medical Response Team
AMMONIA (LIQUID & GAS)

Initial Date: April 24, 2019
Revised Date: Nov. 5, 2025

Section 11-2

Ammonia (Liquid & Gas)

FORMS: Gas (anhydrous) and liquid (aqueous solutions, variable concentrations).

ROUTES OF EXPOSURE: Skin and eye, inhalation, ingestion.

SIGNS AND SYMPTOMS:

CNS: Stupor, lethargy and coma. Seizures may be present.

Eye: Chemical conjunctivitis with vapors, necrosis and blindness with liquids and anhydrous gas exposures.

Cardiovascular: Ventricular arrhythmias and hypotension.

Respiratory: Acute pulmonary edema, bronchospasm, stridor, cough, dyspnea and chest pain. Respiratory tract irritation with possible laryngeal edema.

Gastrointestinal: G.I. bleeding due to liquefaction necrosis of the G.I. tract.

Other: Respiratory damage can be severe with potentially fatal results. Respiratory symptoms may be delayed.

Pre-Medical Control

PARAMEDIC

1. Follow **General HAZMAT Treatment** Protocol.
2. If the patient is unconscious, follow the **Altered Mental Status** protocol and the **Airway Management Protocol**. Aggressive airway management may be indicated.
3. If the patient is wheezing, administer Albuterol 2.5 mg/3 ml NS nebulized. Repeat as needed.
4. Follow **HAZMAT Eye Irrigation** protocol.