



Oakland County Medical Control Authority
Special Operations Protocols - Hazardous Materials Medical
Response Team
AMMONIA (LIQUID & GAS)

Initial Date: September 2022
Revised Date: 9/14/2023

Section 10.101

This Protocol is intended for use by a Hazardous Materials Response Team.
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 potential fatal results. Respiratory symptoms may be delayed.

Pre-Medical Control

PARAMEDIC

1. Follow **10.100 General HAZMAT Treatment** Protocol.
2. If the patient is unconscious, follow the **3.1 Altered Mental Status** protocol and the **7.9 Airway Management Procedure**. 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 **10.105 HAZMAT Eye Irrigation** protocol.