

# RESPIRATORY PROTECTION SELECTION

**IOWA**

College of Public Health



**GREAT PLAINS**  
Center for Agricultural Health

## WHEN TO USE:

## WHEN TO USE ON OUR FARM:

**BLACK**



**Organic Vapor (OV) Cartridge/Canister:** Paint; Most pesticide vapors, but NOT pesticide dust or mist.

**Common Pesticides Requiring an Air-Purifying Half-Mask Respirator with OV Cartridge:**

- Pyrethroids (e.g. Warrior II, Bridgrade®, Hero®)
- Acetochlor (e.g. Harness, Keystone, SureStart)
- 2,4-D (e.g. Hi-Dep®, Weedar 64®, Amine®)
- \*wear OV cartridge with filtration (N95)*
- Pyraclostrobin (e.g. Cabrio, Headline, Priaxor)
- \*wear OV cartridge with filtration (N95)*

**GREEN**



**Ammonia Gas Cartridge/Canister:** Anhydrous Ammonia (rescue or exit situations), Ammonia from Livestock

**Anhydrous Ammonia Application** (wear full face respirator)

**Manure Storage or Manure Pumping** - Under slatted floor or outside lagoon, pit or tank, while wearing H2S monitor to confirm none present

**Inside Animal Housing** - Wear an elastomeric respirator with a green cartridge & filtration

*\*Wear a Full-Face Respirator if Ammonia Concentrations are High*

**YELLOW**



**Organic Vapor (OV), Acid Gases Cartridge/Canister:** Acid Gases such as Sulfur Dioxide, Chlorine from Disinfection, or some pesticides

Paints, Disinfectants, Bleach, Acetic Acid (Vinegar)

Livestock Production Operations

*\*Use a Pre-Filter/Filter Cover*

**OLIVE**



**Multi-Gas Cartridge/Canister:** Mixture of known concentrations of OV, Chlorine, Formaldehyde

Paints, Disinfectants, Bleach

*\*Use a Pre-Filter/Filter Cover*

**PINK/WHITE**



**P100 Filter - Can be pink or white**  
**Particulates (Dusts, Fumes, Fogs Smoke):**

Grain Dusts (grain unloading/handling)

Swine Barn Dusts (food, animal dander, feces, bedding)

## SUPPLIED AIR RESPIRATOR

Use in environments where air is contaminated, harmful, low in Oxygen (below **19.5%** concentration), or unknown.

*\*Use if Hydrogen Sulfide or Carbon Monoxide is present.*

**Sources of H2S:** Agitation & pumping of manure (pits/lagoons); transferring manure for hauling; spraying manure during land application

**Ex.** Entering manure pit or a grain bin with smoldering grain.

