

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.

GREEN



Ammonia Gas

Anhydrous Ammonia (rescue or exit situations), Ammonia from Livestock

YELLOW



Organic Vapor (OV), Acid Gases

Acid Gases such as Sulfur Dioxide, Chlorine from Disinfection, or some pesticides

OLIVE



Multi-Gas

Mixture of known concentrations of OV, Chlorine, Formaldehyde

PINK/WHITE



P100 Filter - pink or white

Particulates (Dusts, Fumes, Fogs, Smoke)

SUPPLIED AIR RESPIRATOR



Environments where air is contaminated, harmful, low in Oxygen, or unknown.

AND

Any time **Hydrogen Sulfide** or **Carbon Monoxide** is present.

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WHEN TO USE:

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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.