



>>> RESPIRATORY PROTECTION

PANDEMIC PREPAREDNESS RESPIRATORY PRODUCTS



According to the Occupational Health & Safety Administration (OSHA), as employers evaluate their workplace, respirators should be considered for use in occupational settings during an influenza pandemic. Use of these devices during an influenza pandemic is a recommended part of a comprehensive strategy of personal protection.

In a pandemic environment, are your employees protected? Would you be able to operate your business and keep the doors open? Having a pandemic plan will allow your business to stay open and maintain operating business as usual under these circumstances.

Sperian Respiratory Protection has many respiratory products to offer for pandemic situations. Sperian is protection you can trust.

What is a Pandemic?



A pandemic is a global disease outbreak. An influenza pandemic occurs when a new influenza virus for which there is little or no immunity in the human population emerges, begins to cause serious illness, and then spreads easily person-to-person worldwide, such as the Novel H1N1 Influenza A virus and/or Avian Flu. A worldwide influenza pandemic could have a major effect on the global economy, including travel, trade, tourism, food, consumption and eventually, investment and financial markets. Planning for pandemic influenza by business and industry is essential to minimize a pandemic's impact. As with any disaster, having a contingency plan is essential.

Employers and employees should use the OSHA guidance on preparing workplaces for an influenza breakout to help identify risk levels in workplace settings and appropriate control measures. Up-to-date information and guidance is available to the public through the www.pandemicflu.gov website.

Infrastructures

According to the U.S. Department of Homeland Security, there are Key Infrastructures whose operations are critical in a pandemic event:

- Agriculture/Food
- Banking/Finance
- Chemical & Hazardous Materials
- Defense
- Industrial
- Drinking Water/Treatment Systems
- Energy
- Healthcare/Public Health
- Information Technology
- National Icons
- Postal
- Shipping
- Telecommunications
- Transportation Systems



Why do I need to protect my workers and stockpile?

An influenza pandemic will be widespread, affecting multiple areas of the United States and other countries at the same time. A pandemic will

A pandemic could affect as many as 40% of the workforce during periods of peak influenza illness.

also be an extended event, with multiple waves of outbreaks in the same geographic area; each outbreak could last 6-8

weeks. Waves of outbreaks may occur over a year or more. Your workplace will likely experience:

- **Absenteeism** A pandemic could affect as many as 40 % of the workforce during periods of peak influenza illness.
- **Change in patterns of commerce** During a pandemic, consumer demand for items related to infection control is likely to increase dramatically, while consumer interest in other goods may decline. Consumers may also change the ways in which they shop as a result of the pandemic.

- **Interrupted supply/delivery** Shipments of items from those geographic areas severely affected by the pandemic may be delayed or cancelled.

The types of measures that may be used to protect yourself, your employees and your customers are **engineering controls, administrative controls, and personal protective equipment (PPE)**. Most employers will use a combination of control methods.

Personal Protective Equipment (PPE) – Examples of personal protective equipment are gloves, goggles, face shields, surgical masks, and respirators (for example, N95).



What quantity should I stockpile?

Estimating Respirator Usage in Workplaces for Pandemic Influenza

EXPOSURE RISK/WORKPLACE	RESPIRATOR USAGE
Very High: Healthcare Workers	1 N95 respirator per employee per aerosol-generating procedure OR 1 elastomeric respirator with 3 or more sets of filters per employee, depending on frequency of use
High: Healthcare Delivery and Support Staff	4 N95s/HCW/shift x 120 pandemic workdays = 480 N95s per exposed HCW <i>If using disposable N95 or surgical N95 respirators to protect emergency medical service providers who treat/ transport patients who are known or suspected to be infected with pandemic influenza, employers should plan for:</i> 8 N95s/EMT/shift x 120 pandemic workdays = 960 N95s OR 1 reusable elastomeric respirator + 3 sets of filters per exposed employee
Medium: Employees with high-frequency close contact (within 6 feet) with the general population, for ex: Banks, Retail, Grocery	2 N95s/employee/shift x 120 pandemic workdays = 240 N95s per exposed employee OR 1 reusable elastomeric respirator + 3 sets of filters per employee

Source: OSHA Proposed Guidance on Workplace Stockpiling of Respirators and Facemasks for Pandemic Influenza

ONE-Fit™ W1400 N95 Flat Fold Respirator



A universal sized disposable flat fold respirator that fits most face shapes and sizes

- Individually packaged to maintain integrity of product in work environment
- Bonded wire nose clip can be easily molded for increased fit
- Lightweight materials allow for longer wear times with less wearer fatigue
- Offers a large cone for easier and cooler breathing
- Meets NIOSH and CDC Standards for N95 protection against airborne pathogens and M.tuberculosis

STYLE NO: W1400

ITEM NO: 14110452

PACKAGING: 20 masks/box

SIZE: one size

CASE: 20 boxes/case

ONE-Fit™ Healthcare Surgical N95 Flat Fold Respirator



Fits, looks and feels like a standard surgical mask while offering the benefits of respiratory protection

- Lightweight and thin construction, with a soft inner layer designed for comfort
- Latex-free and silicone-free construction
- Masks are individually bagged to keep from soiling and contamination
- Tear Away section on the bag for easy opening
- Dispenser style box with tear-out/cut-out panel for ease of access
- Universal, one size surgical respirator designed to fit most face sizes and shapes
- NIOSH-approved as an N95 Particulate Respirator and FDA cleared as a surgical mask
- Ranks as “High Barrier” class 160 mmHg in conformance to ASTM F1862 requirements for fluid penetration and splash resistance

STYLE NO: HC – NB295F

ITEM NO: 14110451

PACKAGING: 20/box

SIZE: one size

CASE: 10 boxes/case

Disposable or Reusable?

Example of Stockpiling Needs and Comparative Costs for a Single High Exposure Risk Employee*

Below is a comparison of two different options for providing respiratory protection and estimates of cost for each option.

Option 1: Using disposable N95 respirators:

$$\begin{aligned} & 480 \text{ N95 surgical respirators} \\ & \times \$0.92 \text{ per respirator} \\ & \hline & = \mathbf{\$441.16} \text{ per employee protected} \end{aligned}$$

Option 2: Using reusable elastomeric respirators:

$$\begin{aligned} & 1 \text{ half mask respirator} \\ & \times \$23.10 \text{ per respirator} \\ & + 3 \text{ sets of N95 filter pads} \\ & \times \$2.25 \text{ per set} \\ & \hline & = \mathbf{\$29.85} \text{ per employee protected} \end{aligned}$$

As you can see, there is a significant saving stockpiling reusable respirators versus disposable filtering facepiece respirators. Elastomeric reusable respirators can also be cleaned and disinfected between patients and/or between shifts.

**Note: these are minimum levels of protection*

Freedom® Disposable Elastomeric Respirator with P100 Filters



Elastomeric half-mask respirator provides the convenience of a disposable respirator with the fit, comfort and breathability of a traditional half-mask respirator

- P100 Filters are pre-assembled for convenience and elimination of assembly mistakes
- Rolled edges, broad sealing flange, and forward angled nosepiece provide secure, comfortable fit
- Use until filters are expended
- Available in three sizes for improved fit and comfort
- Packaged in a resealable bag to protect from contamination when not in use

STYLE NO: FREEDOM P100

ITEM NO: 14150089

SIZE: Small

ITEM NO: 14150090

SIZE: Medium

ITEM NO: 14150091

SIZE: Large

Survivair 3000™ N95 Handypack Half Mask Respirator



Quick and easy respirator kit for immediate use packaged in a resealable, tamper-proof bag

- The Survivair 3000 half mask is durable and comfortable
- Offers a large, pliable sealing area, providing excellent fit
- Angled, self adjusting nose bridge conforms to a variety of nose shapes and sizes
- Comfortable and accommodates safety or prescription eyewear
- An improved yoke design gives a snug, secure fit, and reduces faceplate slippage, yet permits easy donning and doffing

ITEM NO: 351000

SIZE: Small

ITEM NO: 351001

SIZE: Medium

ITEM NO: 351002

SIZE: Large

N95 Replacement Filter Pads



95% efficient against particulate aerosols free of oil

ITEM NO: 106010 N95 Filter Pads

PACKAGING: 24/Box

ITEM NO: 107010 N99 Filter Pads

PACKAGING: 24/Box

Who needs to be protected?

Employee risks of occupational exposure to influenza during a pandemic may vary from very high to high, medium, or lower (caution) risk. The level of risk depends in part on whether or not jobs require close proximity to people potentially infected with the pandemic influenza virus, or whether they are required to have either repeated or extended contact with individuals or groups.

Very high exposure risk occupations are those with high potential exposure to high concentrations of known or suspected sources of pandemic influenza during specific medical or laboratory procedures (healthcare workers).

High exposure risk occupations are those with high potential for exposure to known or suspected sources of pandemic influenza virus (healthcare delivery and support).

Medium exposure risk occupations include jobs that require frequent, close contact (within 6 feet) exposures to known or suspected sources of pandemic influenza virus such as coworkers, the general public, outpatients, school children or other such individuals or groups (bank, retail, grocery, schools, etc.).

Lower exposure risk (caution) occupations are those that do not require contact with people known to be infected with the pandemic virus, nor frequent close contact (within 6 feet) with the public. Even at lower risk levels, however, employers should be cautious and develop preparedness plans to minimize employee infections (office employees).



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For more information regarding Sperian pandemic preparedness, contact your local Sperian representative or Customer Care at 800.430.5490.

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