MSA Novel Coronavirus Disease (COVID-19) Brief



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Guidance on the novel Coronavirus (COVID-19) is available from national and international organizations, such as the United States Centers for Disease Control and Prevention (CDC), the National Institutes of Health (NIH), the World Health Organization (WHO), the European Centre for Disease Prevention and Control (ECDC), and/or your local health authority. The purpose of this bulletin is to provide a summary of key information from these authorities on this viral-related disease, as well as some recommendations on potential personal protective equipment (PPE) that may be suitable for use when working in an environment where COVID-19 or individuals infected with the virus may be present based on guidance from these authorities. This bulletin is NOT a substitute for the detailed information provided about the disease or any related topics by these organizations and is based on the information available as of the issue date of this bulletin. For the most up-to-date information, as well as actions needed to prevent, control and manage contact with COVID-19, you should regularly consult one of these authorities:

US CDC	https://www.cdc.gov/coronavirus/index.html
US NIH	https://www.nih.gov/news-events/news-releases/nih-officials-discuss-novel-coronavirus-recently-emerged-china
WHO	https://www.who.int/health-topics/coronavirus
ECDC	https://www.ecdc.europa.eu/en/coronavirus

What is the Novel Coronavirus (COVID-19)?

The 2019 Novel Coronavirus, or COVID-19, is a new respiratory virus first identified in Wuhan, Hubei Province, China. Since that time, it has been reported in other regions of the world. Public health officials are closely monitoring the virus and we encourage you to visit the websites listed above for the latest information and advice.

How is COVID-19 Transmitted?

While animals are the source of the virus, human-to-human transmission has been demonstrated. Although there is not enough epidemiological information to determine how easily and sustainably this virus is spreading between individuals, it is believed to be transmitted primarily via respiratory droplets that people sneeze, cough, or exhale. These droplets are subsequently inspired into the mouths or noses of people who are nearby or possibly be inhaled into the lungs. According to the CDC, at this time it is unclear if a person can be exposed to the COVID-19 by touching a surface or object that has the virus on it and then touching their own mouth, nose, or possibly their eyes.

According to the CDC, the incubation period for COVID-19 (i.e. the time between exposure to the virus and onset of symptoms) is currently estimated at between two and 14 days. While people are mostly infectious when they exhibit (flu-like) symptoms, there are indications that some may be able to transmit the virus without presenting any symptoms (asymptomatic) or before the symptoms appear.

There is more to learn about the transmissibility, severity, and other features associated with COVID-19, and investigations are ongoing.

Who is at Risk?

The level of risk to individuals is dependent upon exposure. Those at higher risk of infection include Healthcare Professionals (HCP) and others coming in close contact with infected individuals.

How Can I Protect Myself, and Prevention Transmission? According to the CDC, currently there is no vaccine to prevent COVID-19 infection. However, exposure to the virus can be controlled/minimized through use of protective measures where contact with the virus could occur. When the protective measures recommended by the CDC or other authorities includes the use of respirators and/or eye and face protection, those devices must carry approval by a government agency. If the equipment is not disposable, it must be sterilized properly before reuse.

It is recommended that, at a minimum, the following preventive actions be followed to prevent or minimize the spread of respiratory viruses.

- Wash your hands often with soap and water for at least 20 seconds. Use an alcohol-based hand sanitizer if soap and water are not available.
- Avoid touching your eyes, nose, and mouth with unwashed hands.
- Avoid close contact with people who are sick, have a fever or cough.
- Cover your cough or sneeze with a tissue. Afterwards, properly dispose of the tissue and immediately wash your hands.
- Clean and disinfect touched objects and surfaces.
- When visiting live markets in areas currently experiencing cases of novel coronavirus, avoid direct unprotected contact with live animals and surfaces in contact with animals.



What PPE Should I Use?

The CDC does not currently recommend the use of face masks among the general public in the United States, stating that "While limited person-to-person spread among close contacts has been detected, this virus is not currently spreading in the community in the United States". The CDC however, has established "Interim Infection Prevention and Control Recommendations for Patients with Confirmed 2019 Novel Coronavirus (COVID-19) or Patients Under Investigation for COVID-19 in Healthcare Settings".

Employers should select the appropriate PPE (as listed below), and provide it to Health Care Professionals in accordance with OSHA's PPE standards (29 CFR 1910 Subpart I).

- Fluid resistant, impermeable, disposable gloves
- Fluid resistant, impermeable, disposable gowns
- Eye Protection such as goggles or a disposable face shield that covers the front and sides of the face. Reusable eye protection must be cleaned, disinfected and maintained in accordance with the manufacturer's instructions.
- Facemask which has been fit-tested and provides protection
 that is at least as protective as a fit-tested NIOSH-certified N95
 filtering facepiece respirator. If reusable respirators (e.g., powered
 air purifying respirator/PAPR) are used, they must be cleaned,
 disinfected and maintained in accordance with the manufacturer's
 instructions. Respirator use must be in the context of a complete
 respiratory protection program in accordance with Occupational
 Safety and Health Administration (OSHA) Respiratory Protection
 standard (29 CFR 1910.134).

MSA offers both eye/face and respiratory protection that meet the CDC guidance. Be sure to follow the CDC or other authority's proper PPE donning and doffing instructions, as the sequence followed can help prevent the spread of infection. Additionally, ensure proper disposal or cleaning of any PPE after each use in accordance with manufacturer's instructions.

For COVID-19, CDC recommends the use of cleaning products with EPA-approved emerging viral pathogens claims. CDC refers to List N on the EPA website for EPA-registered disinfectants that meet this guidance. MSA's Confidence Plus 2 cleaner is included on List N based on its EPA Reg. No., which begins with 47371-130. The active ingredients in Confidence Plus 2 are quaternary ammonium compounds, which are compatible with MSA's products. Alternate cleaners that meet the CDC guidance also may be used if they have quaternary ammonium compounds as their active ingredients and an EPA Reg. No. starting with 47371-130. Other cleaning products or disinfection methods may be harmful to MSA's products.

Keep in mind, as well, that while PPE can prevent infected material from coming in contact with mucous membranes and exposed, open skin, it is essential that all relevant infection prevention and control (IPC) protocols, and our manufacturer's user instructions are followed when using any of our PPE described in the following.

Goggles - Non-vented, anti-fog (AF) coated goggles can be worn to

meet the CDC guidance. Vents in goggles can provide an exposure path. The AF on non-vented goggles will help reduce the likelihood of fogging during potential exposure work. Be sure the goggles are tightly sealed to the face. Goggles exposed to COVID-19 should be disposed of properly once removed.

Faceshields -While goggles reduce the likelihood of splashes to the eyes, they do not protect other mucous membranes (nose, mouth) that could be exposed; nor do they protect skin. To help reduce the likelihood of splash on these areas, use a faceshield designed for splash protection, such as a polycarbonate visor. DO NOT use a mesh visor as these do not provide splash protection. Faceshields do not take the place of respirators and goggles. Be sure to wear an appropriate respirator and goggles under any faceshield. Faceshields exposed to COVID-19 Virus should be disposed of properly once removed.

Respirators - Government approved particulate respirators can be used to meet the CDC guidance; recommendations from CDC and other authorities include US NIOSH approved N95, European CE certified filtering facepieces EN149 FFP2 or EN149 FFP3, particulate filter EN143 P2 or P3, in combination with full- or half-mask, or any higher-level respiratory protection, such as power-assisted devices. Consult the information from your local authority to determine the specific recommendations for your situation.

When making a personal decision to use a government approved respirator to help reduce exposure to dispersoids, aerosols or particulates containing the COVID-19 virus, the user needs to understand that:

- Reducing exposure to COVID-19 does not mean that the
 risk of exposure, infections and illness has been eliminated.
 Respirators will not prevent you from becoming infected by
 the virus in other ways such as by touching your mouth, nose
 or eyes with contaminated hands or objects, or by other means
 mentioned above.
- In order for a respirator to be most effective, you must properly
 wear the respirator during the entire time you're exposed.
 Removing the respirator to eat, drink, talk or smoke while you
 are in a contaminated area will increase the likelihood that you
 may be exposed to virus particles or droplets.
- 3. Fit of the respirator to your face is very important to minimize the risk of virus particles or droplets from getting inside your lungs. Particles or droplets can enter your respirator through any leaks between the respirator and your face. Hair from beards and mustaches or anything that prevents the respirator from directly touching your skin can prevent a proper seal. Following the manufacturer's instructions to assure a proper fit is essential. Contact the manufacturer with questions about proper fit. Without a proper fit, the air you breathe may go around the mask rather than through the respirator filter.
- 4. Respirators are not intended for use by children or by individuals



with a medical condition that might prevent the use of a respirator, such as asthma, emphysema or a history of heart disease. If you have such a condition, consult your health care provider before use.

- 5. Properly dispose of respirators and filters/cartridges after they are used. Once used, they should not be shared with others.
- Be sure to read and follow all instructions on the fit, use and warnings provided by the manufacturer before using any respirator.
- 7. Please be cautious of claims being made by websites and other

sources regarding the use of respirators for protection against COVID-19. We recommend that you reference your government or appropriate health agencies. For additional information or help selecting MSA products, please contact your local MSA affiliate.

Resources Used in the Development of this Brief

CDC, Coronavirus - https://www.cdc.gov/coronavirus/index.html

CDC, Coronavirus Disease 2019 (COVID-19), Situation Summary — https://www.cdc.gov/coronavirus/2019-ncov/summary.html

CDC, Coronavirus Disease 2019 (COVID-19), Prevention & Treatment — https://www.cdc.gov/coronavirus/about/prevention.html

CDC, "Interim Infection Prevention and Control Recommendations for Patients with Confirmed Coronavirus Disease 2019 (COVID-19) or Persons Under Investigation for COVID-19 in Healthcare Settings"—

https://www.cdc.gov/coronavirus/2019-ncov/hcp/infection-control.html

NIH, "Coronaviruses: An Overview of Their Replication and Pathogenesis" — https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4369385/

NIH, A Novel Coronavirus from Patients with Pneumonia in China, 2019 — https://www.ncbi.nlm.nih.gov/pubmed/31978945

NIH, Coronavirus Disease 2019 (COVID-19) — https://www.nih.gov/health-information/coronavirus

OSHA, COVID-19 —

https://www.osha.gov/SLTC/novel_coronavirus/index.htmlWHO, Coronavirus-https://www.who.int/health-topics/coronavirus

WHO, Coronavirus disease (COVID-19) outbreak — https://www.who.int/emergencies/diseases/novel-coronavirus-2019

European Center for Disease Control and Prevention (ECDC), COVID-19 — https://www.ecdc.europa.eu/en/novel-coronavirus-china

List N: EPA's Registered Antimicrobial Products for Use Against Novel Coronavirus SARS-CoV-2, the Cause of COVID-19 https://www.epa.gov/sites/production/files/2020-03/documents/sars-cov-2-list 03-03-2020.pdf

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit *MSAsafety.com/offices*.