



## FEATURES

- Effective protection from environments containing ethylene oxide gas hazards.
- NIOSH approved
- Comfortable Ultravue® Facepiece
- Chemical-sorbent canister with Window-cator® Service Life Indicator

## DESCRIPTION

The Ethylene Oxide Gas Mask is a respiratory protection device suitable for use in laboratories, pharmaceutical plants, hospitals and other operations subject to ethylene oxide (EtO) hazards. Certified by NIOSH, the Ethylene Oxide Gas Mask may be used for routine use into contaminant concentrations of ethylene oxide up to 50 parts per million, under 29CFR, Part 1910.1043. The gas mask may also be used for escape from contaminant concentrations of up to 0.5% ethylene oxide (5,000 ppm) by volume even when the 0.5% is above the IDLH concentration, provided there is adequate oxygen to support life (19.5%).

The canister contains an N-95-Particulate Filter (95 percent filter efficiency level) effective against aerosols free of oil. **If it is suspected that the specific exposure concentrations exceed the specific limitations of the gas mask, a pressure-demand, self-contained breathing apparatus must be used.** Generally speaking, the Ethylene Oxide Gas Mask is suitable for use in ventilated areas having stable concentration levels. The unit should never be used in confined spaces or where oxygen deficiency and high gaseous concentrations may occur. **Warning: The Ethylene Oxide Gas Mask is not suitable for use in fire fighting.**

The Ethylene Oxide Gas Mask is composed of an Ultravue Facepiece, a breathing tube, harness and a super size chemical-sorbent canister specifically labeled to indicate the protection against ethylene oxide. The canister is color coded light olive green

All Ethylene Oxide Gas Masks are equipped with a black demand Ultravue Facepiece molded from specially formulated Hycar rubber, a combination of natural rubber and synthetic materials. This makes the facepiece soft and pliable for a snug, comfortable fit. Hycar also resists chemical attack and temperature extremes, and is able to withstand rugged day-to-day use without tearing or ripping. The MSA Hycar Ultravue Facepiece is available in both green and black, allowing users to set up a color-coding system for facepieces, if desired. For those users who prefer the feel of silicone, MSA also offers the Ultravue Facepiece in black silicone.

Ultravue Facepieces are available in small, medium and large sizes. They are color-coded as to size--the small facepiece has a gray lens ring, the medium has a black lens ring and the large size has a gold lens ring. The size is also molded right into the facepiece itself. The lens for the Ultravue Facepiece is made from polycarbonate and is coated on both sides to resist scratching and chemical attack. The Ultravue Facepiece has a wraparound design that is engineered to fit close to the eyes, minimizing visual distortion.



*Window-cator Canister Indicator informs the user about the condition of the chemical-sorbent canister*

The compact size also assures the best possible integration with protective headwear.

To help minimize lens fogging, the facepiece uses molded-in tissot ducts and a baffle plate. This allows inhaled air to flow over the lens while exhaled air is directed down toward the exhalation valve, not on the lens.

The Ultravue Facepiece has a mechanical speaking diaphragm for short-range voice communication. The speaking diaphragm is protected by a rugged Noryl<sup>1</sup> housing which is secured to the facepiece with a stainless steel clamp. All components are field replaceable without special tools.

The facepiece has a universal coupling nut which permits quick disassembly for cleaning and also allows the facepiece to be interchanged with other MSA demand-type respirators.

The MSA super size canister is a leak-resistant seamless aluminum canister. The unit is threaded; a cap goes over the threaded neck to keep the canister sealed. A sealing tape covers the bottom air intake, sealing out moisture and keeping the chemical-sorbents fresh. The canister is also equipped with a Window-cator Service Indicator that alerts the user to the condition of the chemical-sorbents and tells the user when the unit should be discarded. A small circular window on the front of the canister contains a colormetric gel that turns from yellow-orange to green-blue as

the canister approaches the end of its useful service life.

The adjustable universal-size harness consists of tubular nylon webbing and a rigid injection-molded cover shell to support the canister. The webbing resists chemicals and moisture, is easily cleaned and sanitized, and keeps a snug fit indefinitely with proper care. The protective shell fits over the top of the seamless canister and is held in place by the harness webbing. It is easily removed for canister change.

## **⚠ WARNING**

**Never use a gas mask without assessing exposure conditions. Use suitable instruments to determine the concentration of oxygen and air contaminants. If in doubt about exposure conditions, use only pressure-demand, self-contained breathing apparatus. Always use the gas mask strictly in accordance with canister labels, gas mask instructions and limitations. DO NOT USE GAS MASK FOR FIRE FIGHTING.**

**To replace the canister and return to fresh air:**

- 1. When the yellow-orange indicator chemical changes to match the green-blue reference color.**
- 2. If high breathing resistance develops.**

**The wearer must leave the contaminated area immediately if:**

- 1. Any eye irritation or feeling of nausea, dizziness or ill being develops.**
- 2. The ethylene oxide concentration exceeds the IDLH level.**

**Failure to comply with the above can result in serious personal injury or death.**

## **APPROVALS & STANDARDS**

The MSA Ethylene Oxide Gas Mask holds NIOSH certification TC 14G-0202.

## ORDERING INFORMATION



Part No.	Description
817078	Ethylene Oxide Gas Mask; front mounted; complete with two 816010 GMEO-SSW-N95 canisters; in carrying case

Part No.	Description
473881	Replacement GMEO-SSW Canister

### Ultravue Demand Facepieces

471218	Small, black Hycar
471222	Small, green Hycar
480251	Small, black silicone
457126	Medium, black Hycar
463872	Medium, green Hycar
480247	Medium, black silicone
471230	Large, black Hycar
471234	Large, green Hycar
480255	Large, black silicone
88306	Replacement breathing tube assembly, for front-mounted mask
84937	Replacement universal harness for front-mounted mask, nylon

## ACCESSORIES



**MSA Spectacle Kit:** For use by workers who must wear corrective lenses, easily inserted into the facepiece. Kit includes wire support, rubber guide and one pair of metal-frame spectacles. Desired adjustment is obtained by moving the spectacles in and out of the rubber guide and by moving the rubber guide up and down the wire support. One size of spectacle frame is used (S-7 shape, 44 mm lens size) with a Universal Bridge. Corrective lenses may be obtained from local sources. Spectacle Kit may be worn in conjunction with nosecup.

Part No.	Description
454819	Prescription Spectacle Kit, Universal Bridge, 44 mm lens (less lenses); for use with Ultravue Facepiece



**MSA Nosecup:** Molded from a soft rubber compound that is resistant to facial oils. Reduces possibility of lens fogging. The nosecup, which is easily affixed to the facepiece without tools, is particularly effective under conditions of high humidity and/or low temperatures by inhibiting contact of the moist exhalation with facepiece lens.

Part No.	Description
471710	Small, for use with small Ultravue Facepiece
471711	Medium, for use with medium Ultravue Facepiece
471712	Large, for use with large Ultravue Facepiece



**Cover lens:** Protects the lens of the Ultravue Facepiece from scratches during storage, handling and even in use.

Part No.	Description
456975	Cover lens, clear (pkg of 25 lenses); for Ultravue Facepiece
480326	Cover lens, smoke-tinted (pkg of 25 lenses); for Ultravue Facepiece



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