

## The MSA Millennium Gas Mask Answers the Call

The MSA Millennium CBRN Gas Mask meets or exceeds all performance requirements of the NIOSH CBRN Standard by effectively removing harmful gases, vapors and particulates so that the user can confidently breathe safely. The Millennium CBRN canister contains chemical sorbents and a P100 filter to attract, retain, and neutralize contaminants.

The Millennium CBRN design is based on a highly successful military gas mask. The wearer enjoys a wide field of view and great flexibility, making it possible to safely perform any tasks required, including firing weapons if needed. The wearer can communicate easily while wearing the Millennium CBRN Gas Mask, too. The mask is lightweight and provides a tight seal on the face. A nose cup is also incorporated for reduced fogging of the facepiece. The material is impermeable to chemical agents such as mustard (HD), providing maximum assurance to the wearer. Riot Control Canisters are also available which protect against common riot control agents such as CN/CS and OC. The Millennium is also approved with a P100 filter for particulate/aerosol protection.



**CBRN ENCOMPASSES CHEMICAL, BIOLOGICAL, RADIOLOGICAL AND NUCLEAR AGENTS – AIRBORNE HAZARDS WHICH COULD BE USED AS WEAPONS IN A TERRORIST ATTACK.**



Canister Test Challenge and Test Breakthrough Concentrations*		
Concentration (ppm)	Test	Breakthrough
Ammonia	2500	12.5 ppm
Cyanogen chloride	300	2 ppm
Cyclohexane	2600	10 ppm
Formaldehyde	500	1 ppm
Hydrogen Cyanide	940	4.7 ppm <sup>1</sup>
Hydrogen Sulfide	1000	5 ppm
Nitrogen Dioxide	200	1 ppm NO <sup>2</sup> or 25 ppm NO <sup>2</sup>
Phosgene	250	1.25 ppm
Phosphine	300	0.3 ppm
Sulfur Dioxide	1500	5 ppm

<sup>1</sup> Sum of HCN and C2N2.

<sup>2</sup> Nitrogen Dioxide breakthrough is monitored for both NO<sub>2</sub> and NO. The breakthrough is determined by which quantity, NO<sub>2</sub> or NO, reaches breakthrough first.

Table 3 from "Statement of Standard for Chemical, Biological, Radiological, and Nuclear (CBRN) Full Facepiece Air Purifying Respirator (APR)," revision 1; March 17, 2003.

\* CAP-1 Maximum breakthrough for greater than 15 minutes.

### (NIOSH) CBRN STANDARD FOR FULL-FACEPIECE GAS MASKS

- Chemical, biological, radiological and nuclear agents
- Mask penetration and permeation
- Carry and transportation
- Use performance
- Quality assurance

A NIOSH-approved CBRN APR canister provides protection against a minimum of 139 identified CBRN agents, which are classified into the following 7 families: Organic Vapors, Acid Gases, Base Gases, Hydrides, Nitrogen Oxides, Particulates (composed of chemical, biological, and radiological and nuclear particulate threats), and Formaldehyde.

The test representative agents (TRA) NIOSH uses for certification testing to represent each agent family are listed at left. For a complete listing of all CBRN agents and test representative agents for each family, please consult the NIOSH CBRN Respiratory Handbook found here. <https://www.cdc.gov/niosh/docs/2018-166/pdfs/2018-166.pdf?id=10.26616/NIOSH PUB2018166>.

## Key components

- 1** Six-point head harness means easy donning, adjustment and removal with no hair pulling.
- 2** Flexible, one-piece polyurethane lens eliminates uncomfortable pressure points.
- 3** Canister inlet ports on left or right side enables weapon sighting from either side.
- 4** Super-soft black Hycar rubber exceeds CBRN permeation requirements.
- 5** Drinking tube allows wearer to ingest water without removing mask.



## Order Information

	Small	Medium	Large	
MILLENNIUM CBRN RIOT CONTROL GAS MASK	10051286	10051287	10051288	Millennium Gas Mask, with nose cup, drinking tube, and clear polycarbonate outsert <i>Order either Riot Control or CBRN canisters separately.</i>

RIOT CONTROL CANISTERS	818264	Millennium riot control canisters, box of 6	
CBRN CANISTER	10046570	CBRN Cap-1 canister, for Millennium, G1 and Ultra Elite Facepieces	
P100	10042346	Optifilter XL - 20 Pack	
P100	496081	Optifilter XL - 6 Pack	



CBRN Canister

Riot Control Canister

Optifilter XL

## Accessories



ESP II® Communications System



Gas Mask Pouch



Spectacle Kit



Lens Outsert

LENS OUTSERT	10008907	Polycarbonate lens outsert, clear, small
	10008906	Polycarbonate lens outsert, clear, medium/large
ESP® II COMMUNICATION SYSTEM	10026265	1-piece, self-contained, electronic speech projection device less battery
OTHER ACCESSORIES	10034184	Gas Mask Pouch, Military Style
	816137	Millennium Spectacle Kit

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.

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