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## FEATURES

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- Full-facepiece respiratory protection against certain gases, vapors and particulate matter.
- Four types available to meet specific exposure conditions.
- Supplied with Ultravue® Facepiece.
- Canisters specifically labeled as to type and limitations; color-coded for fast, accurate recognition.
- Supplied in one-piece molded plastic carrying cases.

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## DESCRIPTION

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Each MSA Gas Mask is a protective system consisting of the facepiece, breathing tube, harness and chemical-sorbent canister specifically labeled and color-coded to indicate the type of protection afforded.

Because gas masks are air-purifying devices, designed solely to remove specific contaminants from the air, it is

essential that their use be restricted to entry into and work in atmospheres containing contaminants with adequate warning properties. They are not intended for use in atmospheres containing less than 19.5 percent oxygen. Gas Masks have the following maximum use conditions:

**Routine Use:** 100X the Permissible Exposure Level -do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration;

**Escape:** Contaminant concentrations up to the maximum use concentrations of the gas mask providing there is sufficient oxygen to support life.

It is imperative that the user assess the exposure conditions carefully before selecting a specific mask for respiratory protection. It is recommended that instruments be used to measure the concentration of oxygen and harmful gases and vapors present in the atmosphere under the various exposure and operating conditions.

From a practical standpoint, gas masks are generally suitable for ventilated areas with relatively stable concentration levels. They should never be used in confined spaces or where oxygen deficiency and high gaseous concentrations may occur.

Gas masks may also be used for escape only from atmospheres in which the contaminant concentration does not exceed the maximum use condition of the gas mask.

**If the specific exposure concentrations are suspected of exceeding the specific limitations, or are unknown, only a self-contained breathing apparatus or a combination Type C supplied-air respirator with auxiliary self-contained air supply should be used.**

### **▲ WARNING**

**DO NOT USE FOR FIRE FIGHTING**

## FACEPIECE & BREATHING TUBE

All standard MSA 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 rubber also resists chemical attack and temperature extremes, and is able to withstand rugged day-to-day use without tearing or ripping.

As an option, the Ultra Elite Facepiece can be "special-ordered" to be a part of the Gas Mask. The Ultra Elite Facepiece incorporates the latest in computer-aided design, laser modeling and testing. The result is a facepiece that surpasses any other mask in combined terms of vision, comfort, fit, communications and versatility.

Both styles of facepieces can be ordered in silicone rubber, for those who prefer the feel of silicone. The Ultravue and Ultra Elite Facepieces are available in three sizes: small, medium and large.

The lens for each respirator is



made of polycarbonate, coated on both sides to resist scratching and chemical attack. To help minimize lens fogging, every facepiece

uses molded-in tissot ducts or a baffle plate. These allow inhaled air to flow over the lens, while exhaled air is directed down toward the exhalation valve, not the lens.

A mechanical speaking diaphragm comes in each facepiece for short-range voice communication.

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

The breathing tube of a gas mask is designed to resist crushing, piercing, and pinching. It is made of a synthetic

rubber polymer which is durable and resists chemicals. Numerous corrugations along the length of the tube allow it to stretch for free head movement without breaking the face-to-facepiece seal.

## ORDERING INFORMATION

### Ultravue® Demand Facepiece

Part No.	Size	Color	Material
471218	Sm	Black	Hycar
480251	Sm	Black	Silicone
457126	Med	Black	Hycar
480247	Med	Black	Silicone
471230	Lg	Black	Hycar
480255	Lg	Black	Silicone

### Ultra Elite® Demand Facepiece

Part No.	Size	Color	Material
810223	Sm	Gray	Hycar
493064	Sm	Black	Hycar
810231	Sm	Gray	Silicone
493072	Sm	Black	Silicone
810151	Med	Gray	Hycar
493020	Med	Black	Hycar
810159	Med	Gray	Silicone
493028	Med	Black	Silicone
810295	Lg	Gray	Hycar
493108	Lg	Black	Hycar
810303	Lg	Gray	Silicone
493116	Lg	Black	Silicone

### Breathing Tube

Part No.	Description
88306	10" Breathing Tube (Standard)
457175	Side/Back Mounted Breathing Tube (Optional)

## HARNESS

An adjustable universal-size harness consisting of webbing and a cover shell is used to support Type N, Super Size, and Industrial Size Canisters. Tubular nylon webbing resists chemicals and moisture, is easily cleaned and sanitized, and keeps its snug fit indefinitely with proper care.

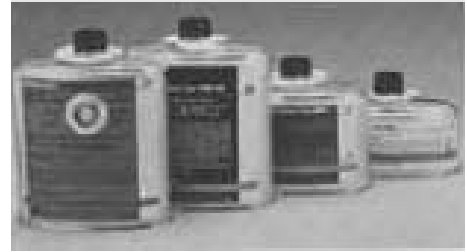
The rigid, injection-molded nylon shell fits over the top of the seamless canister and is held in place by the harness webbing; it is easily removed for canister changes.

## ORDERING INFORMATION

### Harness Assemblies

84937 Harness Assembly

## GAS MASK CANISTERS



MSA offers three canister models:

Type N or Super Size, Industrial Size, and Chin Type. The model to use depends upon the type and concentration of contaminant and length of service life required.

MSA Canisters are seamless to prevent potential leakage or channeling of gases or vapors past the chemical sorbents. The compact oval shape makes the canister easy to use and store. The Canister connector is threaded, and a sealing tape seals the bottom air intake to assure fresh chemical sorbents by preventing moisture from entering the canister before use.

**Canister Selection:** Each canister is specifically labeled as to type and limitations and is color-coded for fast and accurate recognition.

Gas Masks are tested and approved by NIOSH for respiratory protection against various gases and vapors. Super Size and Industrial Canisters have a maximum use condition against certain gases and vapors ranging from 500 ppm to 30,000 ppm (3%) by volume, or as specified on the canister label. Chin Type Canisters, because of their smaller size, are tested and approved for maximum use conditions not in excess of 5,000 ppm (0.5%) by volume or as specified on the canister label.

MSA Canisters contain particulate filters for the removal of dust and certain other particulate matter. This makes the mask dual-purpose — it protects against both gaseous and particulate contaminants, and eliminates stocking canisters for special use in situations where toxic

MSA Canister Identification	Color Coding	Approval	Maximum Use Conditions Routine Use: 100x the Permissible Exposure Level - do not exceed the Immediately Dangerous to Life or Health (IDLH) Concentration. Escape: Contaminant concentrations up to the maximum use concentration of the gas mask, providing there is sufficient oxygen to support life.	Canister Size  (Part No. in parentheses)
Type N HW-P100	Red	TC-14G-0233	††20,000 ppm (2%) acid gas, organic vapors, or carbon monoxide; 30,000 ppm (3%) ammonia, or 20,000 ppm (2%) total when more than one gas is present. Also effective against hydrogen fluoride gas	Type N (816012)
GME0-SSW-N95	Olive	TC-14G-0202	†5,000 ppm (0.5%) ethylene oxide	Super Size (816010)
GMHS SSW-N95	Olive	TC-14G-0195	†500 ppm (0.05%) chlorine dioxide; 1,500 ppm (0.15%) phosphine; 20,000 ppm (2%) organic vapors or chlorine; 10,000 ppm (1%) hydrogen sulfide	Super Size (816009)
GMA-N95	Black	TC-14G-0203	†20,000 ppm (2%) organic vapors	Industrial Size (816001)
GMD-N95	Green	TC-14G-0201	†30,000 ppm (3%) ammonia	Industrial Size (816002)
GML-N95	White	TC-14G-0205	††20,000 ppm (2%) chlorine	Industrial Size (816003)
GMA-C-N95	Black	TC-14G-0197	†5,000 ppm (0.5%) organic vapors	Chin Type (815994)
GMC-C-N95	Yellow	TC-14G-0196	†5,000 ppm (0.5%) organic vapors and acid gases	Chin Type (815996)
GMF-C-N95	Olive	TC-14G-0207	†5,000 ppm (0.5%) acid gases, or 5,000 ppm (0.5%) formaldehyde or 1,500 ppm (0.15%) phosphine	Chin Type (816051)
GMD-C-N95	Green	TC-14G-0198	†5,000 ppm (0.5%) ammonia	Chin Type (815993)
GML-C-N95	White	TC-14G-0199	†5,000 ppm (0.5%) chlorine	Chin Type (815995)
GMDL-C-N95	Brown	TC-14G-0200	†5,000 ppm (0.5%) ammonia, chlorine and organic vapors	Chin Type (815999)
GMR-I-P100	Magenta	TC-14G-0204	†5,000 ppm (0.5%) organic vapors, also effective against organic iodides and iodide vapors	Chin Type (815998)
GMHF-C	Olive	TC-14G	††2,000 ppm (0.2%) hydrogen fluoride, also effective against chlorine acid gases and organic vapors	Chin Type (816000)

**Note:** Canisters marked with a (†) contain an N95-Particulate Filter (95 percent filter efficiency level) effective against aerosols free of oil. Canisters marked with a (††) contain a P100-Particulate Filter (99.97percent efficiency level) against all particulate aerosols.

canisters have a high efficiency P100 element, which has an initial efficiency of 99.97% against 0.3 micron DOP smoke, and protects against more toxic and finely divided matter, indicated by a magenta stripe on the canister label.

The chart above shows the MSA canisters available for various contaminants.

**Service Life:** Canister service life of an air-purifying device depends on the following factors:

1. The design, including the quality and amount of chemical fill, packing uniformity and density.

2. Variable exposure conditions, including concentrations of contaminants in the air, breathing rate of the wearer, temperature and humidity. Since the exposure conditions are subject to wide variation, it is most difficult to estimate the service life of a gas mask canister.

However, for guidance purposes, actual canister bench tests performed under Title 42, Code Of Federal Regulations, Part 84, Subpart I,

stipulate their following minimum service requirements at a flow rate of 64 liters per minute in concentrations of 20,000 ppm (2%) for most gases and vapors or 30,000 ppm (3%) ammonia: Industrial and Super Size

- Canisters . . . . .12 min.
- Type N Canisters:
- Acid Gases . . . . .6 min.
- Organic Vapors . . . . .6 min.
- Ammonia . . . . .6 min.
- Carbon Monoxide . . . . .60 min.

Chin Type Canisters, because of their small size, are tested at a flow rate of 64 liters per minute and a concentration of 5,000 ppm (0.5%). The minimum service time is 12 minutes. NIOSH-approved MSA Canisters exceed these minimum performance requirements.

**▲ WARNING**

Because the work level of the wearer may be more or less than that used in the test, a shorter or longer service period may actually be obtained. Hence, the above times are guides only and cannot be relied upon for minimum performance time.

**Gas Mask Carrying Cases:** All Industrial and Super Size Gas Masks are supplied in one-piece molded plastic carrying cases. Cases have no metal parts. Two canisters are supplied with Super Size Masks; one canister is supplied with Industrial and Chin Type masks. The Chin Type Mask is supplied in a more compact case.

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## TYPE N OR SUPER SIZE GAS MASK WITH ULTRAVUE FACEPIECE

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The MSA Type N Gas Mask is approved for respiratory protection for acid gases, organic vapors, carbon monoxide and ammonia. The MSA Type N Gas Mask has the following Maximum Use Conditions: **Routine Use:** 100X the Permissible Exposure Level -do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration. **Escape :** Contaminant concentrations up to 20,000 ppm (2%) acid gases, carbon monoxide and organic vapors by volume and 30,000 ppm (3%) ammonia by volume even when the 20,000 ppm (2%) or 30,000 ppm (3%) ammonia, providing there is adequate oxygen to support life. At these upper limits, the service time may be extremely short (as low as 6 minutes).

The user must, therefore, rely heavily on his/her senses of smell and taste, or the presence of eye irritation to warn of the approach of the end of the useful life of the canister. Since carbon monoxide cannot be detected by odor or taste, the window indicator indicates the end of the useful life of the canister.

The Type N Gas Mask has a WINDOW-CATOR® Canister which contains a moisture indicator. This small, round window in the front of the canister has two half circles—one shows a light blue reference color; the other, a darker blue indicating color. As the sorbent is penetrated during use and absorbs moisture, the indicator color gradually grows lighter—closer to the reference color. When the colors match, the canister is losing its effectiveness against carbon monoxide and should be replaced.



**Note:** A Type N Canister exposed to carbon monoxide can be expected to get quite warm due to the oxidation reaction; however, if the inhaled air becomes extremely hot, it is an indication that high gas concentrations have been encountered and the wearer should return to fresh air immediately. The canister also contains a P100 - particulate filter (99.97% filter efficiency level) against all particulate aerosols. The Model HW canister contains a special Ultra Filter, making it resistant to hydrogen fluoride gas.

## SUPER SIZE GAS MASK WITH ULTRAVUE FACEPIECE

The MSA Super Size Gas Mask is designed for respiratory protection against a specific gas or group of gases, as indicated by canister identification. See chart on page 3 for specific canister information. The gas mask assembly has the following Maximum Use Conditions: **Routine Use:** 100X the Permissible Exposure Level - do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration. **Escape:** contaminant concentrations up to the maximum use concentration of the gas mask (generally, 20,000 ppm (2%) by volume; see canister selection chart for details), providing there is sufficient oxygen (19.5 percent by volume) to support life. At these upper-use conditions, the service time may be extremely short (as low as 12 minutes). The user must, therefore, rely heavily on his/her senses of smell, and taste, or the presence of eye irritation to warn of the end of the useful life of the canister.

As indicated by its name, the Super Size Gas Mask has an extra-large canister which will last approximately twice as long as the equivalent industrial Size Canisters because of a larger volume of chemical fill.

A filter in the canister removes certain particulate contaminants. See canister selection chart for details.

### **▲ WARNING**

**DO NOT USE FOR FIRE FIGHTING**

#### **Note:**

Super Size Gas Masks are also available with small or large Ultravue or Ultra Elite Facepieces on special order.



## ORDERING INFORMATION

**Part numbers** (NIOSH/MSHA Certification Number in parentheses)

### **MSA Type N and Super Size Gas Masks with Ultravue Facepiece**

- 817080** Model HW-P100, front mounted; complete with two 316012 WINDOW-CATOR Canisters; in carrying case (TC-14G-0233)
- 817077** Phosphine, hydrogen sulfide, organic vapors, chlorine; front-mounted; complete with two 816009 GMHS-SSW-N95 canisters; in carrying case (TC-14G-0195)
- 817078** Ethylene Oxide; front-mounted; complete with two 816010 GMEO-SSW-N95 canisters; in carrying case (TC-14G-0202)

### **Replacement Canisters**

- 816012** Replacement Canister, Model HW-P100 WINDOW-CATOR; for Type N Mask (TC-14G-0233)

- 816009** Replacement Type N Canister, GMHS-SSW-N-95, phosphine, hydrogen sulfide, organic vapors, chlorine; for Super Size Gas Mask (TC-14G-0195)
- 816010** Replacement Canister, GMEO-SSW-N95, ethylene oxide; for Super Size Gas Mask (TC-14G-0202)



## INDUSTRIAL SIZE GAS MASK WITH ULTRAVUE FACEPIECE

The MSA Industrial Size Gas Mask is designed for respiratory protection against a specific gas or group of gases, as indicated by canister identification. The gas mask assembly has the following Maximum Use Conditions:

**Routine Use:** 100X the Permissible Exposure Level - do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration.

**Escape:** contaminant concentrations up to the maximum use concentration of the gas mask (generally, 20,000 ppm (2%) by volume; see canister selection chart for details), providing there is sufficient oxygen (19.5 percent by volume) to support life. At these upper-use conditions, the service time may be extremely short (as low as 12 minutes). The user must, therefore, rely

heavily on his/her senses of smell, and taste, or the presence of eye irritation to warn of the end of the useful life of the canister.

This gas mask is similar to the Super Size Mask described previously, except it has a smaller canister.

### **⚠ WARNING**

**DO NOT USE FOR FIRE FIGHTING**

## ORDERING INFORMATION

### **MSA Industrial Size Gas Mask with Ultravue Facepiece**

**Part numbers** (NIOSH Approval Number in parentheses)

- 817071** Organic vapor; front-mounted; complete with a 816001 GMA-N95 canister; in carrying case (TC-14G-0203)
- 817072** Ammonia; front-mounted. complete with a 816002 GMD-N95 canister; in carrying case (TC-14G-0201)
- 817073** Chlorine; front-mounted; complete with a 816003 GML-N95 canister; in carrying case (TC-14G-0205)

### **Replacement Canisters**

- 816001** Replacement Canister. GMA-N95, organic vapors, for MSA Industrial Size Gas Mask (TC-14G-0203)
- 816002** Replacement Canister, GMDN-95, ammonia; for MSA Industrial Size Gas Mask (TC-14G-0201)
- 816003** Replacement Canister, GML-N95, chlorine; for MSA Industrial Size Gas Mask (TC-14G-0205)

**Note:** Industrial Size Gas Masks are also available with small or large Ultravue or Ultra Elite Facepieces. Industrial Gas Masks may also be ordered with optional 28" breathing tube.



## CHIN TYPE GAS MASK WITH ULTRAVUE FACEPIECE

The MSA Chin Type Gas Mask is designed for respiratory protection against a specific gas or group of gases, as indicated by canister identification. The gas mask assembly has the following Maximum Use Conditions:

**Routine Use:** 100X the Permissible Exposure Level - do not exceed the Immediately Dangerous to Life or Health (IDLH) concentration.

**Escape:** contaminant concentrations up to the maximum use concentration of the gas mask (generally, 5,000 ppm(0.5%) by volume; see canister selection chart for details), providing there is sufficient oxygen (19.5 percent by volume) to support life. At these upper-use conditions, the service time may be extremely short (as low as 12 minutes). The user must, therefore, rely heavily on his/her senses of smell, and taste, or the presence of eye irritation to warn of the end of the useful life of the canister.

The Chin Type Gas Mask gives face and respiratory protection against particulate matter, vapors and gases by means of a lightweight, replaceable canister. The small, oval-shaped aluminum canister and facepiece are designed to permit downward head movement.

## ORDERING INFORMATION

**Part numbers** (NIOSH Certification Number in parentheses)  
**MSA Chin Type Gas Mask with Ultravue Facepiece**

- 817058** Organic vapor; complete with a 815994 GMA-C-N95 canister; in carton (TC-14G-0197)
  - 817057** Organic vapor; complete with a 815994 GMA-C-N95 canister; in carrying case (TC-14G-0197)
  - 817060** Organic vapor/acid gas; complete with a 815996 GMC-N95 canister; in carton (TC-14G-0196)
  - 817059** Organic vapor/acid gas; complete with a 815996 GMC-N95 canister; in carrying case (TC-14G-0196)
  - 817062** Acid gas or formaldehyde or phosphine; complete with a 816051GMF-C-N95 canister; in carton
  - 817061** Acid gas or formaldehyde or phosphine; complete with a 816051GMF-C-N95 canister; in carrying case
  - 817064** Ammonia; complete with a 815993 GMD-N95 canister; in cardboard carton (TC-14G-0198)
  - 817063** Ammonia; complete with a 815993 GMD-N95 canister; in carrying case (TC-14G-0198)
  - 817066** Chlorine; complete with a 815995 GML-N95 canister; in cardboard carton (TC-14G-0199)
  - 817065** Chlorine; complete with a 815995GML-N95 canister; in carrying case (TC-14G-0199)
- Replacement Canisters**
- 815994** Replacement Canister, GMA-C-N95, organic vapors; for MSA Chin Type Gas Mask (TC-14G-0197)
  - 815996** Replacement Canister, GMC-C-N95, organic vapors/acid gases; for MSA Chin Type Gas Mask (TC-14G-0196)
  - 816051** Replacement Canister, GMF-C-N95, acid gases, or formaldehyde or phosphine (TC-14G-0207)
  - 815993** Replacement Canister, GMD-C-N95, ammonia; for MSA Chin Type Gas Mask (TC-14G-0198)
  - 815995** Replacement Canister, GML-C-N95, chlorine; for MSA Chin Type Gas Mask (TC-14G-0199)

- 815998** Replacement Canister, GMR-I-P100, organic vapors/radioactive particulate matter (TC-14G-0204)
- 815999** Replacement Canister, GMDL-C-N95, ammonia/chlorine/organic vapors; for MSA Chin Type Gas Mask (TC-14G-0200)
- 475942** Replacement Canister, GMHF-C, hydrogen fluoride/radioactive particulate matter; for MSA Chin Type Gas Mask (TC-14G-135)

**Note:** Chin Type Gas Masks are available with small or large Ultravue Facepieces on special order.



### Belt-Mounted Version:

The belt-mounted version of the Chin Type Gas Mask allows the wearer to mount any chin-style canister on a support belt. This shifts the weight of the canister to the hip providing greater comfort for some wearers. The additional parts needed are:

Part Number	Description
<b>486297</b>	Belt Clip
<b>456651</b>	Breathing Tube Assembly
<b>473902</b>	PVC Support Belt
<b>9961</b>	Web Support Belt, uncoated
<b>497982</b>	Polyurethane-coated Nylon Support Belt

### ▲ WARNING

Never use a gas mask without carefully assessing exposure conditions. Use suitable instruments to determine concentration of oxygen and air contaminants. If exposure concentrations are expected to exceed the specific canister limitations, or are unknown, only a self-contained breathing apparatus or a combination Type C supplied air respirator with auxiliary self-

contained air supply should be used. Always use strictly in accordance with canister labels, gas mask instructions and limitations. Safety is the responsibility of the user of the mask. **DO NOT USE GAS MASKS FOR FIRE FIGHTING.** When a canister is used in maximum use concentrations, its useful life may be extremely short (as low as 12 minutes). As the contaminant concentration is reduced, the useful life will increase correspondingly.

**Note:** Do not use canisters where the contaminant vapor does NOT possess good warning properties such as odor, taste, eye, nose or throat irritation that are readily detectable at or below the Permissible Exposure Level.

Gas mask canisters used for emergency purposes should be replaced after each use. Specific indications for canister replacement and/or return to fresh air are:

1. If the window indicators of the Type N-N95, GME0-SSW-N95 or GMHS-SSW-N95 Canisters show the specified color changes.
  2. If any leakage is detected by smell, taste or eye, nose or throat irritation.
  3. If high breathing resistance develops.
  4. If the canister shelf life is exceeded.
- Specific warning signs which require immediate return to fresh air are:
1. Uncomfortable heat in the inhaled air. (A properly operating canister may become warm on exposure to certain gases or vapors, but a canister which becomes extremely hot indicates that concentrations above the canister limit have been encountered.)
  2. Any feeling of nausea, dizziness or ill-being develops.

## APPROVALS & STANDARDS

All MSA Gas Masks have been certified by NIOSH (specific numbers shown under Ordering Information for each mask type).

## ACCESSORIES



### 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 face-

piece without tools, is particularly effective under conditions of high humidity and/or low temperatures by inhibiting contact of the moist exhalation with facepiece lens.

- |               |                                                   |
|---------------|---------------------------------------------------|
| <b>471710</b> | Small; for use with small Ultravue Facepiece      |
| <b>471711</b> | Medium; for use with medium Ultravue Facepiece    |
| <b>471712</b> | Large; for use with large Ultravue Facepiece      |
| <b>495188</b> | Medium, Black; for use with Ultra Elite Facepiece |
| <b>495189</b> | Large, Black; for use with Ultra Elite Facepiece  |
| <b>810412</b> | Medium, Gray; for use with Ultra Elite Facepiece  |
| <b>810413</b> | Large, Gray; for use with Ultra Elite Facepiece   |



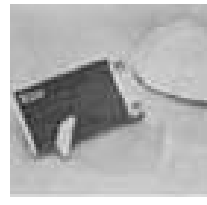
### Spectacle Kit:

For use by workers who must wear corrective lenses. Can be easily inserted into the Ultravue or Ultra Elite Facepiece.

Includes a wire support, rubber guide and one pair of metal frame spectacles. Adjusts by moving the spectacles in and out of the rubber guide and by moving the rubber guide up and down the wire support. Can be used in conjunction with a nosecup.

### Part No.

- |               |                                                      |
|---------------|------------------------------------------------------|
| <b>454819</b> | Ultravue Prescription Spectacle Kit                  |
| <b>493581</b> | Ultra Elite Prescription Spectacle Kit, Center mount |
| <b>804638</b> | Ultra Elite Prescription Spectacle Kit, Side-mount   |



### Cover lens:

Protects the lens of the Ultravue and Ultra Elite Facepieces from scratches during storage, handling and even in use.

- |               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| <b>456975</b> | Cover lens, clear (pkg. of 25 lenses); for Ultravue Facepiece           |
| <b>480326</b> | Cover lens, smoke-tinted (pkg. of 25 lenses); for Ultravue Facepiece    |
| <b>491500</b> | Cover lens, clear (pkg. of 25 lenses); for Ultra Elite Facepiece        |
| <b>805456</b> | Cover lens, smoke-tinted (pkg. of 25 lenses); for Ultra Elite Facepiece |

### The ESP® Communications System:

Provides electronic speech projection through a waterproof, facepiece-mounted, wireless assembly. The system, which is easy to install, allows users to talk to each other—clearly and easily—without static or interference from radio frequencies. Designed for hands-free operation, the ESP System features a “Continuous On” mode that permits users to leave the system on without having to activate it every time they want to speak. For those who don’t need the unit on continuously, the “on” switch has a “Push-to-Talk” position that enables the device to be operated only when needed.

- |               |                                    |
|---------------|------------------------------------|
| <b>811737</b> | ESP Unit for Ultravue Facepiece    |
| <b>817297</b> | ESP Unit for Ultra Elite Facepiece |

**MSA** Be Sure.  
Choose MSA.

Offices and representatives in principal cities worldwide.

In U.S. call the Customer Service Center toll-free at 1-800-MSA-2222. To reach MSA International, call (412) 967-3249 or fax (412) 967-3451. Visit our web site at [www.MSAnet.com](http://www.MSAnet.com)

Corporate Headquarters: P.O. Box 426, Pittsburgh, PA 15230 USA.

Note: This Data Sheet contains only a general description of the MSA Gas Masks. While uses and performance capabilities are described, under no circumstances should the products be used except by qualified, trained personnel, and not until the instructions, labels, or other literature accompanying them has been carefully read and understood and the precautions therein set forth followed. Only they contain the complete and detailed information concerning these products.

