

# Personal protective equipment guide for handling production chemicals

---

## Ammonia

It is our mission at VWR, part of Avantor, to set science in motion to create a better world. Safety is a key component of that. See below for a select group of head-to-toe items to keep your most important resources safe when working with ammonia.

## Respirators

### 9000 SERIES FULL FACE RESPIRATORS, MOLDEX®

Full face respirators with technologically advanced features and exclusive over-molded lens design.

- High-tech, streamlined design for exceptional worker acceptance
- Exclusive over-molded lens offers greater field of vision
- Lighter weight for superior all-day comfort

Cat No: **10065-408** or find additional options on [vwr.com](http://vwr.com)

**Why respirators?** Lung irritation and burns from chemical vapors can serious short and long-term risks. To prevent these be sure there is adequate ventilation and respiratory protection available. Do not forget about proper fit testing!



# Face protection

## VWR® RATCHET HEADGEAR WITH FACE SHIELD

The VWR® Ratchet Headgear with Face Shield provides full face protection from debris and splash hazards. Ideal for use in many environments ranging from the lab to industrial applications.

- Lightweight design
- Ratchet headgear features padded headband for better fit and comfort
- Face shield features universal slot design compatible with many different headgear styles
- Face shield thickness: 2.0 mm
- Fits comfortably with respirator or eyewear
- Impact-resistant, scratch-resistant polycarbonate shield

Cat No: **76336-850** or find additional options on [vwr.com](http://vwr.com)

**Why face protection?** Even when wearing safety glasses or goggles and respirators, it is important to prevent injuries from splashes, sprays, or mist by wearing approved facial protection. Face shields are a good way to also protect the respirator and goggles being worn, making sure they are in proper working order.



# Eyewear

## VWR® CHEMICALS SPLASH GOGGLE

Wide vision goggles provide high levels of comfort and maximum splash protection.

- Wrap around modern style provides excellent panoramic vision
- Fits most facial contours
- Comfortably fits over most prescription glasses
- Indirect ventilation
- Provides 99.9% UV protection

Cat No: **75982-628** or find additional options on [vwr.com](http://vwr.com)

**Why eyewear?** Chemical burns from vapor and splashes represent a large amount of eye injuries. Simple goggle protection is an easy way to prevent these type of eye injuries.



# Coveralls

## DUPONT™ TYCHEM® RESPONDER® CSM COVERALLS WITH ATTACHED GLOVES AND SOCKS

Tychem® RESPONDER® CSM combines multiple film barriers laminated to both sides of a high-strength polypropylene substrate for high level protection against toxic and corrosive chemicals. Tychem® RESPONDER® CSM fabric provides at least 30 minutes of protection against 320 chemical challenges.

- Respirator fit hood
- Replaceable attached butyl gloves
- Attached socks with outer boot flaps
- Double storm flap with hook & loop closure
- Double taped seams

Cat No: **13452-702** or find additional options on [vwr.com](http://vwr.com)



## MICROCHEM® BY ALPHATEC™ 68-4000 CHEMICAL PROTECTION COVERALLS WITH HOOD AND ULTRASONICALLY WELDED AND TAPED SEAMS, ANSELL

These coveralls are designed to provide an exceptional barrier against organic and inorganic chemicals as well as biological agents.

- Permeation tested against over 190 chemicals, including chemical warfare agents
- Textile-like inner improves comfort
- Typical coverall features include color coded dual zip systems, double cuffs with knitted inner cuff, and 2-piece respirator fit hood
- Ultrasonically welded and taped seams provides a strong liquid and particle barrier

Cat No: **10836-248** or find additional options on [vwr.com](http://vwr.com)

**Why coveralls?** Splashes and spills cannot always be prevented. Everyday clothes are not enough to prevent harsh chemicals from permeating. Be sure those handling hazardous chemicals are wearing protective apparel that is rated for the type of exposure and length of time one could be exposed for.



## Aprons

### MICROCHEM® BY ALPHATEC™ 68-4000 BIB APRON, ANSELL

Engineered to provide an exceptional barrier against a wide range of organic and inorganic chemicals and biological agents.

- Exceptional protection, over 200 chemicals permeation tested, including chemical warfare agents
- Designed to protect
- Silicone free

Cat No: **76207-744** or find additional options on [vwr.com](http://vwr.com)



**Why aprons?** The protection offered by a coverall is not always necessary but there still may be risks to the body and clothing being worn. Be sure to properly evaluate your processes to determine which PPE should be used.

## Hand protection

### SCORPIO® 08-352 NEOPRENE-COATED GLOVES, ANSELL

Scorpio® 08-352 gloves offer broad-spectrum resistance to a wide range of chemicals, including oils, acids, solvents, and caustics.

- Hand-specific
- Pinked cuffs
- Rough finish for handling wet materials

Cat No: **32890-345** or find additional options on [vwr.com](http://vwr.com)



**Why hand protection?** The most common type of injury is to the hand. Chemical exposure can cause many different injuries based on the chemical type and exposure time. Limit risks by wearing hand protection that is compatible with the chemicals used.

Working with other chemicals? See our whole range of PPE brochures for chemical work

	Acetone	Acetonitrile	Ammonia	Chloroform	Dichloromethane	Isopropyl alcohol	Methanol	Nitric acid	Petroleum ether	Toluene	Xylene
Face protection	76336-850	—	<b>76336-850</b>	—	76336-850	76336-850	76336-850	76336-850	76336-850	76336-850	33002-535
Eyewear	75982-628	—	<b>75982-628</b>	—	75982-628	75982-628	75982-628	75982-628	75982-628	75982-628	75982-628
Respirators	56219-042	45000-754	<b>10065-408</b>	56223-222	45000-754	56222-177	56219-042	89013-374	80082-486	56222-946	56222-903
Coveralls	10016-516	76187-230	<b>13452-702</b>	76187-230	76187-230	10016-516	10016-516	10010-420	10836-520	76187-254	76187-254
	10836-248	10836-248	<b>10836-248</b>	10836-264	10836-264	10836-216	10836-216	10836-248	—	10836-248	10836-248
Aprons	13452-842	76187-176	<b>76207-744</b>	76187-176	76187-176	13452-842	13452-842	13452-672	76207-744	76187-410	76187-410
Hand protection	89011-858	89011-858	<b>32890-345</b>	32890-009	32890-009	76323-476	32890-345	76323-510	76323-486	10119-108	10119-108
	76337-040	76337-040	—	76337-040	76337-040	76218-518	—	—	76218-518	75804-776	75804-776
Sleeves	10170-170	—	—	—	—	10170-170	10170-170	13450-338	—	—	—