

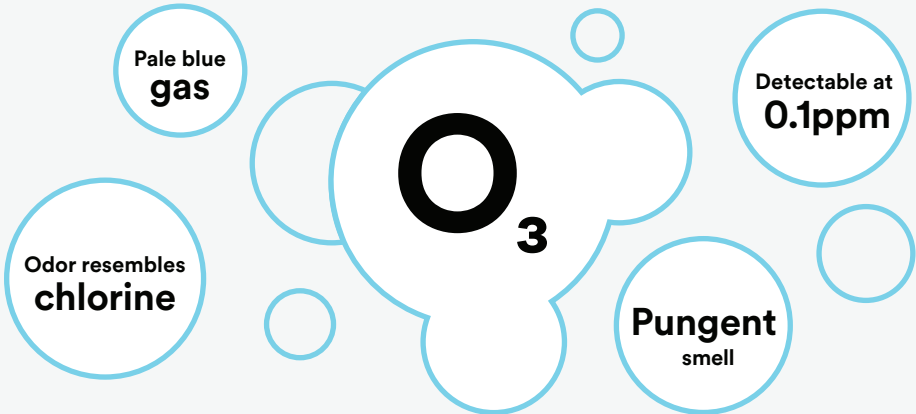
# Know your hazard: Ozone

## What is Ozone?

Ozone, or trioxygen, is an inorganic molecule with the chemical formula O<sub>3</sub>.

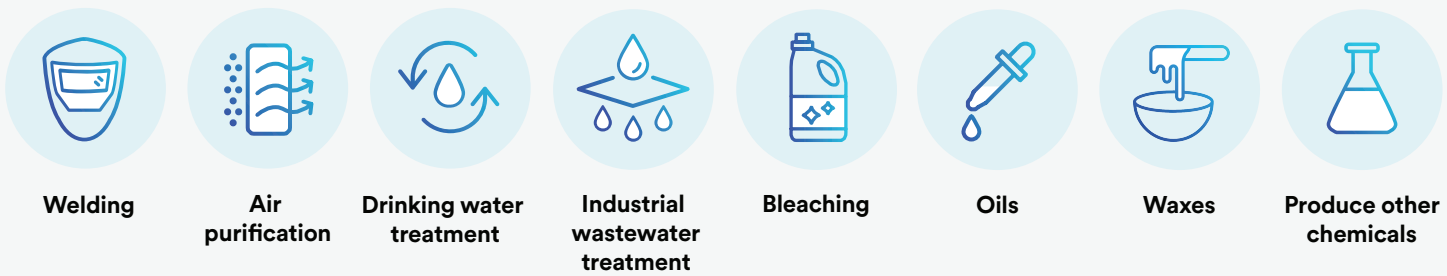
It is a pale blue gas with a distinctively pungent smell resembling chlorine.

Many people can detect ozone in the air at concentrations as low as 0.1 ppm.



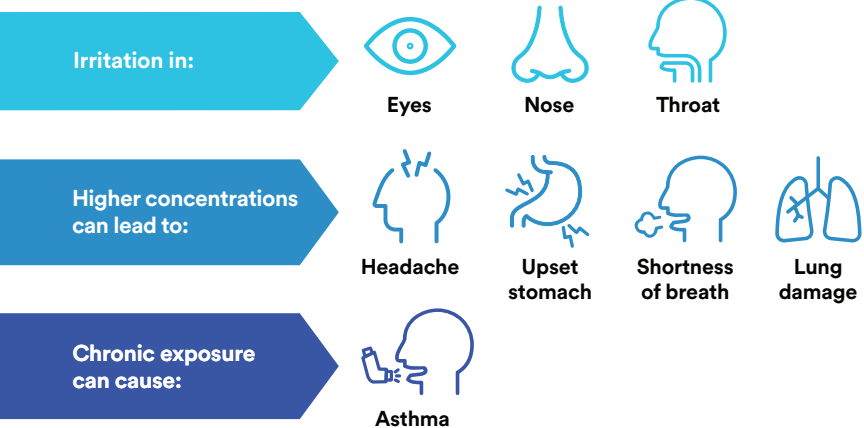
## Where is Ozone used?

Ozone plays an important role in various industrial processes. According to the U.S. National Institute for Occupational Safety and Health^ (NIOSH), ozone is utilized in:



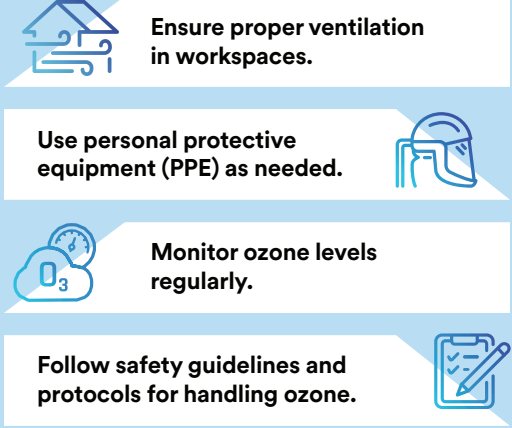
## Harmful effects of Ozone exposure

Exposure to ozone can lead to several health observations, including:



## How can one protect against it?

To reduce exposure and risks to workers, you can:



## What RPE does 3M recommend for Ozone protection?

3M provides a comprehensive range of respiratory protective equipment (RPE) designed to safeguard your team from ozone exposure. Explore our selection of RPEs to identify the best fit for your specific work environment.

Type of Respirators	Exposure Type	Recommended 3M Respiratory Protective Equipment*
 Powered Air Respirator	Up to 1ppm ozone with estimated service life of up to <b>40</b> hours	 3M™ Versaflo™ Powered Air Purifying Respirator Starter Kit, TR-619E + 3M™ Versaflo™ Filter TR-6310E, A2P
	Up to 1ppm ozone with estimated service life of up to <b>8</b> hours	 3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 or Half Facepiece HF-800 Series + 3M™ Secure Click™ Organic Vapor Cartridge D8001
		 3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 or Half Facepiece HF-800 Series + 3M™ Secure Click™ Particulate Filter P100 with Nuisance Level Organic Vapor Relief D3097
 Reusable Respirator	For nuisance odor relief only	 3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 or Half Facepiece HF-800 Series + 3M™ Secure Click™ Hard Case P100 Particulate Filter, Hydrogen Fluoride and Nuisance Level Organic Vapor and Acid Gas Relief, D9093C
 Supplied Air Respirator	Ozone concentration of more than <b>1</b> ppm	 3M™ Versaflo™ Vortex Cooling Assembly V-100 + 3M™ Versaflo™ M-407 Helmet

Disposable Respirators for protection against ozone exposure are not recommended for use in the country.  
\*If using these filters or cartridges for ozone and additional gas/vapour/particulate hazards, consult appropriate product *User Instructions* for additional guidance on time use limitations. This is only recommendation for minimum PPE required. Each work application must be evaluated by a competent person as required by local laws and regulations for the hazard and risk before selection of right PPE. Workplace rules and regulations must take precedence, if more stringent.  
^<https://www.cdc.gov/niosh>

REQUEST A DEMO  
To know which respiratory protection is best suited for your work environment, scan the QR code.

READ MORE  
For more information on the hazard and product disclaimers, scan the QR code for the technical bulletin.

EXPLORE MORE  
To discover variety of respiratory protection equipment from 3M, for your workers, scan the QR code.