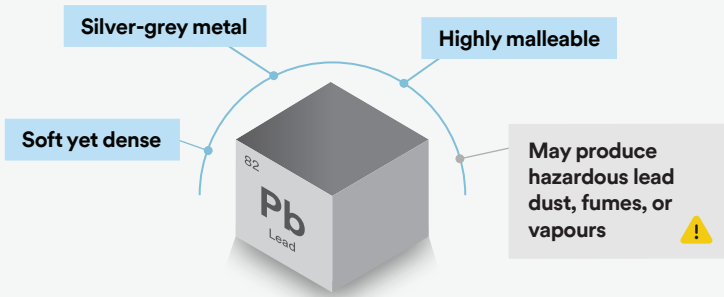


Know your hazard: Lead

What is lead?

Elemental lead is a soft and yet dense, silver-grey metal that is highly malleable. Inorganic lead and lead compounds are used extensively throughout industry. Industrial processes may generate **lead dust, fumes, or vapours**, which are hazardous to health.



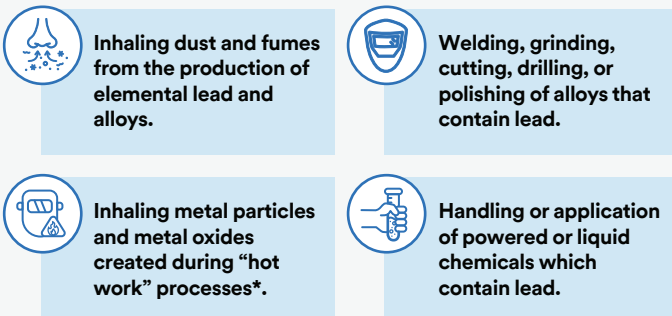
Where is lead used?

Lead is utilised in metal production, metal fabrication and related applications, such as:



Sources of exposure to lead

Workers are exposed to lead during the production and processing of elemental lead and its alloys. They can be affected by:



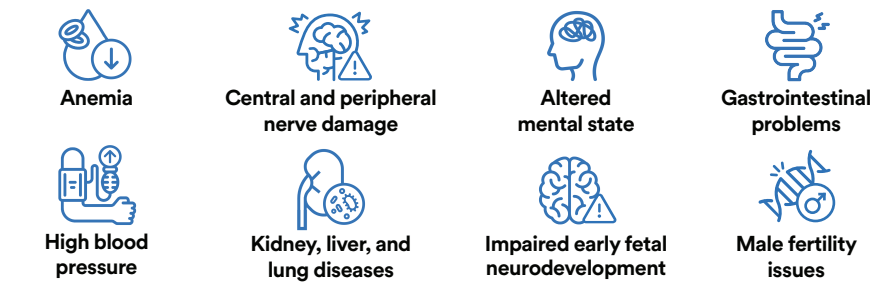
Harmful effects of lead

Exposure to lead in the workplace can occur through inhalation and ingestion. The health effects may vary from acute to chronic:

Acute effects:



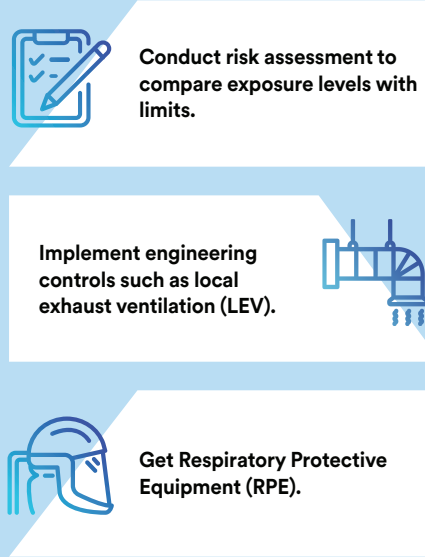
Chronic exposure can cause:



Lead and inorganic lead compounds are classified as probably carcinogenic to humans (Group 2A) by the IARC** and as confirmed animal carcinogens by the ACGIH**.


















How can one protect against it?

In order to reduce exposure and risks to workers, you can:



What RPE does 3M recommend for protection against lead?

3M has a range of RPE that can help reduce your exposure to dusts, mists, metal fume, as well as gases and vapours commonly encountered in metal production and fabrication.

Type of Respirators	Recommended 3M Respiratory Protective Equipment***						
<div></div> <div>Powered Air Respirator</div>	<div></div> <div>3M™ Versaflo™ Powered Air Purifying Respirator Starter Kit, TR-619E</div>	+	<div></div> <div>3M™ Versaflo™ M-407 Helmet</div>	+	<div></div> <div>3M™ Versaflo™ Particulate Filter, TR-6710E for TR-600 PAPR</div>	OR	<div></div> <div>3M™ Versaflo™ ABE2K1HgP Filter TR-6580E for TR-600 PAPR</div>
<div></div> <div>Supplied Air Respirator</div>	<div></div> <div>3M™ Versaflo™ Vortex Cooling Assembly V-100</div>	+	<div></div> <div>3M™ Versaflo™ M-407 Helmet</div>	OR	<div></div> <div>3M™ Versaflo™ S-533 Hood</div>		
<div></div> <div>Reusable Respirator</div>	<div></div> <div>3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 or Half Facepiece HF-800 Series</div>		+	<div></div> <div>3M™ Secure Click™ Particulate Filter P100 with Nuisance Level Organic Vapor Relief D3097</div>			
<div></div> <div>Disposable Respirator</div>	<div></div> <div>3M™ Particulate Respirator 8511, N95</div>		<div></div> <div>3M™ Aura™ Disposable Respirator 9332A+, FFP3/P3</div>				
<div></div> <div>Welding</div>	<div></div> <div>3M™ Speedglas™ G5-03 Pro Air Welding Helmet with 3M™ Adflo™ PAPR Assembly G5VC ADF (45-1101-30VC)</div>						

*Hot work processes include cutting, grinding, and even polishing metals, which can create particles of metal and metal oxides that can be inhaled.
**The International Agency for Research on Cancer (IARC) and the American Conference of Governmental Industrial Hygienists (ACGIH) are organizations involved in cancer research and occupational health.
***This is only recommendation for minimum PPE required. Each work application must be evaluated by a competent person as required by local law and regulation for the hazard and risk before selection of right PPE. Workplace rules and regulations must take precedent, if more stringent.



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.