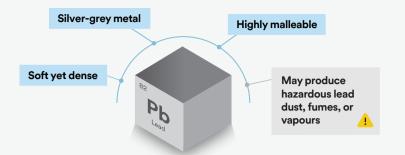


## Know your hazard: Lead

### 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:







waste



Smelting, refining, alloying, and casting of lead and other metals

Working with metallic lead and alloys containing lead

Recovering and Painting of recycling lead building and from scrap and spray-painting of vehicles

### 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:



Inhaling dust and fumes from the production of elemental lead and

Inhaling metal particles and metal oxides created during "hot work" processes\*.



How can one

protect against it?

Welding, grinding, cutting, drilling, or polishing of alloys that contain lead.

Handling or application of powered or liquid chemicals which contain lead.

### 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:

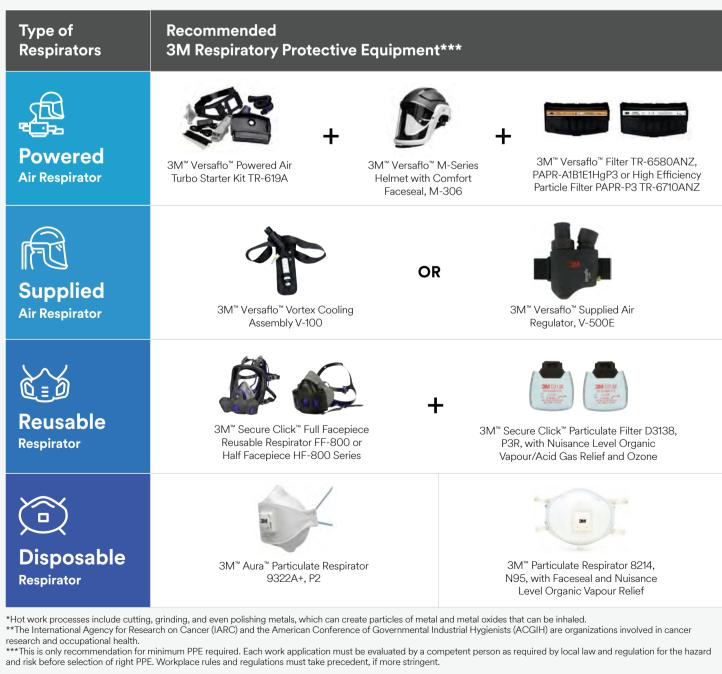


Lead and inorganic lead compounds are classified as probably carcinogenic to humans (Group 2A) by the IARC\*\* and as confirmed animal carcinogens by the ACGIH\*\*

# 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.









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