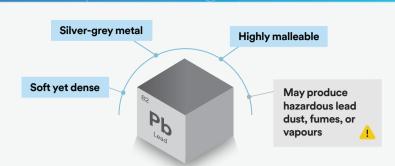


Know your hazard:

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:







Working with metallic lead and alloys containing lead



Recovering and recycling lead from scrap and waste



building 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 alloys.



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



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



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:

Acute effects:



and constipation



Anorexia



Muscle pain



Weariness

Chronic exposure can cause:







Kidney, liver, and

the IARC** and as confirmed animal carcinogens by the ACGIH**



Impaired early foetal



problems



iceupe

High blood Male fertility lung diseases neurodevelopment pressure

Lead and inorganic lead compounds are classified as probably carcinogenic to humans (Group 2A) by

How can one protect against it?

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



Conduct risk assessment to compare exposure levels with limits.

Implement engineering controls such as local exhaust ventilation (LEV).





Get Respiratory Protective Equipment (RPE).

What RPE does 3M recommend for protection against

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

lead?

commonly encountered in metal production and fabrication.

Type of Respirators

Recommended 3M Respiratory Protective Equipment***



Powered Air Respirator



3M[™] Versaflo[™] Powered Air Turbo Starter Kit TR-619A



3M™ Versaflo™ M-Series Helmet with Comfort Faceseal, M-306





3M™ Versaflo™ Filter TR-6580ANZ, PAPR-A1B1E1HgP3 or High Efficiency Particle Filter PAPR-P3 TR-6710ANZ







3M™ Versaflo™ Vortex Cooling Assembly V-100



OR



3M™ Versaflo™ Supplied Air Regulator, V-500E



Reusable Respirator



3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 or Half Facepiece HF-800 Series





3M™ Secure Click™ Particulate Filter D3138, P3R, with Nuisance Level Organic

Vapour/Acid Gas Relief and Ozone

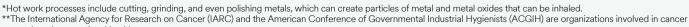






3M™ Particulate Respirator 8214, N95, with Faceseal and Nuisance Level Organic Vapour Relief

EXPLORE MORE



9322A+, P2

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

AU and NZ











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