

Know your hazard: Liquid Industrial Paints

What are liquid industrial paints?

Liquid industrial paints are of two types, water-based and solvent-based. They are distinguished on the basis of amount of Volatile Organic Compounds (VOC) content present in them.

Water-based or emulsion paints



Solvent-based or oil-based/alkyd paints



Sources of exposure to liquid industrial paints

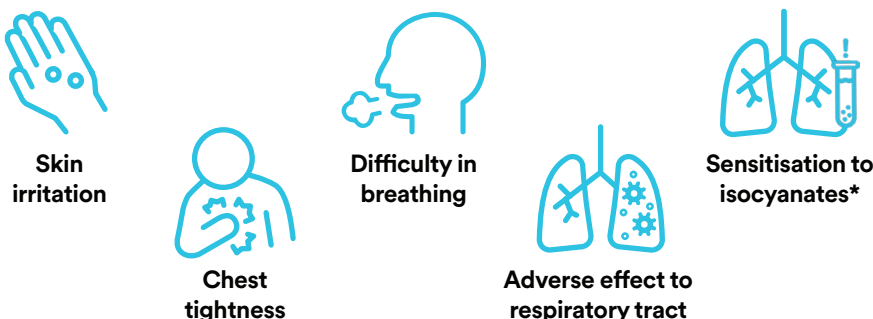
Workers can be exposed to harmful effects of paints while:



Harmful effects of using solvent-based or oil-based/alkyd paints

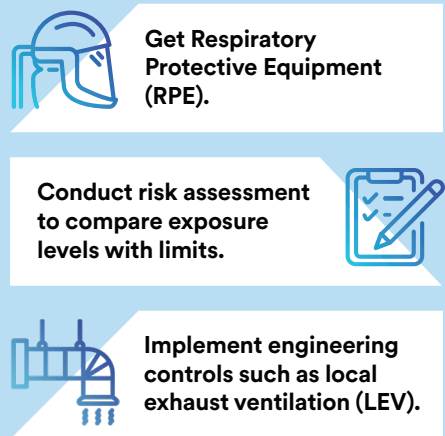
Exposure risk to solvent-based paints increases because of their composition that includes reducing agents and clean-up solvents. Certain solvent-based paints include isocyanates, a class of chemical compounds. Safe Work Australia and WorkSafe New Zealand specify for spraying isocyanate containing paints a Supplied Air Respiratory system is required.

Exposure to isocyanates can cause:



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 liquid industrial paint?

3M offers respiratory protection equipment designed for different types of paint, whether water-based or solvent-based, and the specific airborne contaminants.

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
 Supplied Air Respirator	 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	 3M™ Half Facepiece HF-800SD Series
 Disposable Respirator ^	 3M™ Cupped Particulate Respirator 8577, GP2, with Nuisance Level Organic Vapour Relief		 3M™ Cupped Particulate Respirator 9926ANZ, P2 with Nuisance Level Acid Gas Relief, Valved

^Not to be used when spraying isocyanates containing paint
*It is estimated that 5% - 20% of workers can become sensitised to isocyanates. Sensitisation is the body's allergy-like response to a substance that has been inhaled or touched by a susceptible individual.
**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.

AU and NZ

READ MORE

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

AU and NZ

EXPLORE MORE

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

AU

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