

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

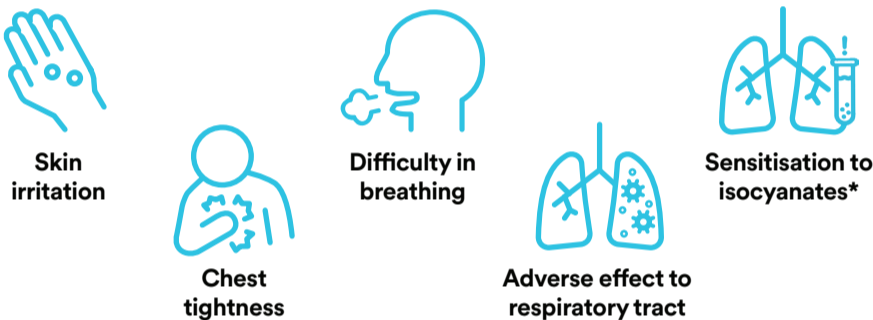
Workers can be exposed to harmful effects of paints while:



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

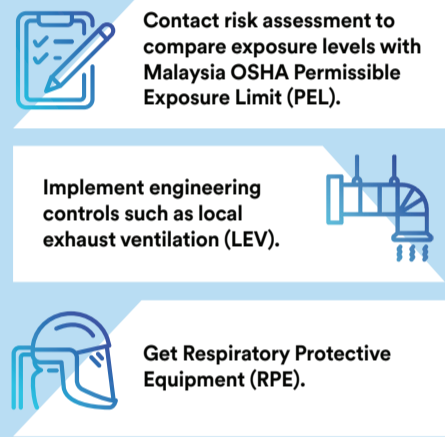
Exposure risk to solvent-based paints increases because of their composition that includes reducing agents and clean-up solvents. Certain solvent-based paints include isocyanates, a class of chemical compounds.

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™ Heavy Industry PAPR Kit, TR-600E-HIK 3M™ Versaflo™ ABE2K1HgP Filter TR-6580E for TR-600 PAPR | |
|  Supplied Air Respirator |  3M™ Versaflo™ Vortex Cooling Assembly V-100 | |
|  Reusable Respirator |  +  3M™ Secure Click™ Full Facepiece Reusable Respirator FF-800 or Half Facepiece HF-800 Series 3M™ Secure Click™ Cartridge D8059, A1B1E1K1 (Use with Filter Retainer D701 and Pre-Filter D7925 if application is spray painting) | |
|  Disposable Respirator |  3M™ Particulate Respirator 8577, P95, with Valve and Nuisance Level Organic Vapour Relief | |
| |  3M™ Particulate Respirator 9542V, P2, with Valve and Nuisance Level Organic Vapour Relief | |

*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.



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.