

Hazardous Substances Awareness

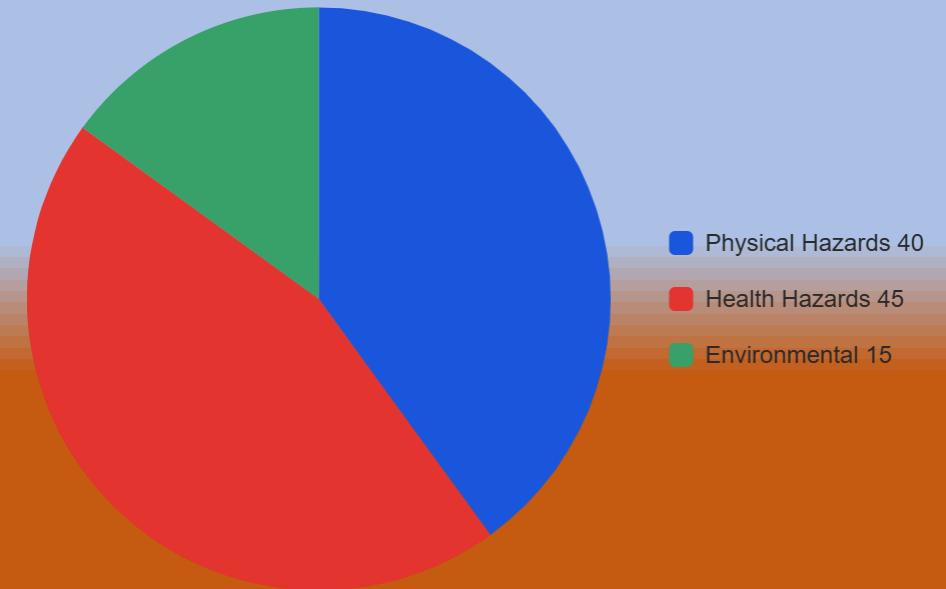
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Compliance, Workplace Safety, and National Regulatory
Standards for 2026

Defining Hazardous Chemicals & GHS

Hazardous substances pose physical or health risks to workers. Malaysia's CLASS 2013 regulations align with the UN Globally Harmonized System (GHS) to standardize hazard communication.

- Mandatory labeling for all chemicals
- Standardized 16-section SDS required
- Current transition from GHS Rev 3 to Rev 8



Common Hazardous Materials in Malaysia

Industrial Chemicals & Solvents

- Strong Acids: Hydrochloric, Sulfuric
- Solvents: Acetone, Toluene, Benzene
- Alkalis: Caustic Soda (NaOH)
- Heavy Metals: Lead, Mercury compounds

Agrochemicals & Gases

- Pesticides: Paraquat, Glyphosate
- Industrial Gases: Ammonia, Chlorine
- Flammables: LPG, Acetylene
- Oxidizers: Hydrogen Peroxide

Health and Safety Risk Profile



Risk Category	Acute Effects	Chronic Effects
Health	Skin burns, respiratory distress	Organ damage, cancer, asthma
Environment	Aquatic toxicity, flash fires	Soil contamination, ecological loss

Key Malaysian Regulations (2024–2026)

OSHA 1994 (Amended 2024)

Applies to all workplaces as of 1 June 2024. Maximum fines increased 10x for non-compliance.

CLASS Regulations 2013

Governs classification, labeling, and SDS. Inventory deadline: 31 March 2026 via CIMS portal.

CIMAH Regulations 1996

Regulates Major Hazard Installations (MHI) based on threshold quantities of hazardous chemicals.

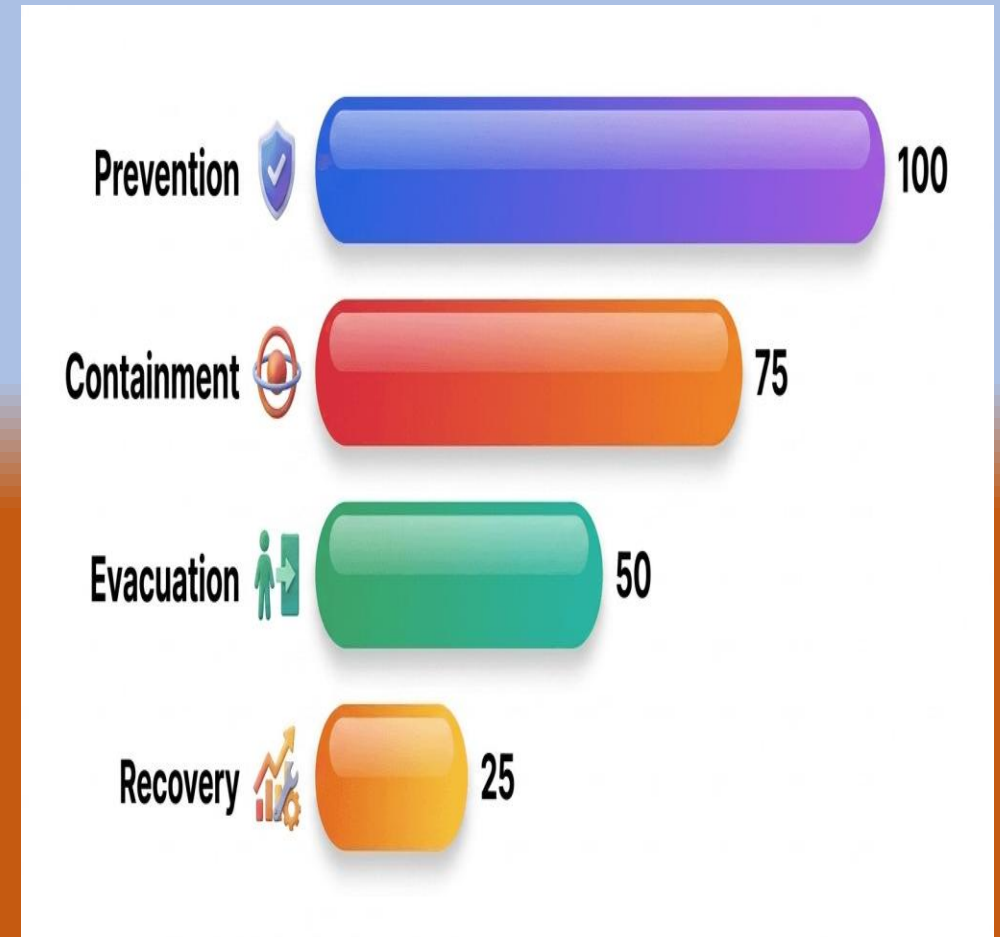
USECHH Regulations 2000

Mandatory Chemical Health Risk Assessments (CHRA) for chemicals
chemicals hazardous to health.

Handling & Emergency Response

Proper handling requires meticulous attention to documentation and storage segregation.

- SDS: Must be in Bahasa Malaysia & English
- Storage: Segregate by compatibility
- Spill Kits: Available at point of use
- Training: Annual hazardous awareness refreshers



PPE Selection by Body Part

Respiratory: Chemical respirators (N95/P100)

Hands: Nitrile or Butyl gloves (Chemical-rated)

Body: Chemical-resistant aprons or Tyvek suits

Eyes/Face: Splash goggles and face shields

Feet: Steel-toed boots with chemical protection



Best Practices for Compliance

Hierarchy of Control

Elimination of hazard should always be the first priority.
Where impossible, substitute with less toxic alternatives and apply engineering controls before relying on PPE.

Administrative Duties

Appoint OSH Coordinator (5+ employees). Conduct regular CHRAs under USECHH 2000. Maintain hazardous chemical inventory and submit to DOSH annually.

Summary & Key Takeaways

- OSHA 2024 Compliance: Ensure 1 June 2024 amendments are fully integrated.
- CLASS 2013 Inventory: Submit 2025 chemical data by 31 March 2026.
- GHS Alignment: Transition procedures toward UN GHS Revision 8 standards.
- Risk Control: Prioritize Elimination and Engineering controls over PPE.
- Emergency Preparedness: Maintain updated SDS in BM and English at all sites.

THANK YOU