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**PLCGROUP**  
"Symbol of Excellence"

## OCCUPATIONAL SAFETY AND HEALTH (CONTROL OF INDUSTRIAL MAJOR ACCIDENT HAZARDS) REGULATIONS 1996

This regulation was promulgated on 1<sup>st</sup> Feb 1996 and a grace period of one year was given to industries for conformance.

Any person contravening provisions of this Act, shall upon conviction be liable to a fine not exceeding RM 10,000 or to imprisonment for a term not exceeding 1 year or both and in the case of a continuing offence, to a fine not exceeding RM 1,000 for every day or part of a day during which the offence continues after conviction.

It applies to all industrial activities. The industrial activity in this regulation is defined as an operation, which carried out, by an industrial installation in term of process and storage activities involving the specified hazardous substances above specified threshold quantities. The industrial installation which fall under this regulation are:

- Installation for the production, processing or treatment of organic or inorganic chemicals.
- Installation for distillation, refining or other process in processing of petroleum or petroleum products.
- Installation for the total or partial disposal of solid or liquid substances by incineration or chemical decomposition.
- Installation for the production, processing or treatment of energy gases, for example, light petroleum gas, light natural gas and synthetic natural gas.
- Installations for the dry installation of coal or lignite.
- Installations for the production of metals or non-metals by a wet process or by means of electrical energy.
- Installations for the bottling of flammable and toxic substances.

The requirement of the Regulation operates at two levels. At the first level, any activities that involved hazardous substances less than threshold quantity or more than 10% of the threshold quantity, it is classified as non-major hazard installation. Therefore, manufacturers are required to produce documentation to demonstrate that the activity is being operated safely and also prepared an on-site Emergency Response Plan.

At the second level, any activities that involved hazardous at or above the threshold limit are classified as major hazard installation, which require the manufacturer to prepare a safety report called "**CIMAH Report**" by a **competent person** and also prepare an Emergency Response Plan covering both on-site and off-site emergency services.

The hazardous substances are summarized below with its threshold quantity.

services



products

**Technical HSE**

- HSE Case
- Quantitative Risk Assessment (QRA)
- Fire & Explosion Modelling (**SAFER®**)
- Ventilation & Dispersion Modelling (**SAFER®**)
- Hazard & Operability Studies (HAZOP), Hazard Identification (HAZID)
- Fire Risk Assessment

**Legislative Compliance HSE**

- Control of Industrial Major Accident Hazard (CIMAH) Reports
- Chemical Health Risk Assessment (CHRA)
- Demonstration of Safe Operations (DOSO)

**HSE Management**

- HSE Management System
- HSE Procedures & Documentation
- HSE Audit
- Hazard Assessment & Risk Management (HARM)

**Emergency Management**

- Emergency Response Plan (ERP)
- Incident Command System (ICS)
- Hazardous Material (HAZMAT) - Mercury
- Major Emergency Management using Simulator

**Other Specialised Solutions**

- Behaviour Based Safety (BBS)
- Food Safety, Hygiene & Quality
- Defensive Driving

• **Very Toxic Substances**

LD50 (oral) mg/kg body weight	LD50 (cutaneous) mg/kg body weight	LC50 (inhalation) mg/l	Threshold Quantity
LD50≤5	LD50≤10	LC50≤0.1	5 tonnes
5<LD50≤25	10<LD50≤50	0.1<LC50≤0.5	

• **Other Toxic Substances**

LD50 (oral) mg/kg body weight	LD50 (cutaneous) mg/kg body weight	LC50 (inhalation) mg/l	Threshold Quantity
25<LD50≤200	50<LD50≤400	0.5<LC50≤2	10 tonnes

• **Flammable Substances**

Type	Characteristics	Threshold Quantity
Flammable gases	- boiling point at normal pressure is 20 degrees Celsius - gaseous at normal pressure	50 tonnes
Highly flammable gases	- flash point lower than 21 degrees Celsius - boiling point at normal pressure is above 20 degrees Celsius	5,000 tonnes 200 tonnes
Flammable liquids	- flash point lower than 55 degrees Celsius	

• **Explosive Substances**

Characteristics	Threshold Quantity
Substance which may explode under the effect of flame or which are more sensitive to shocks or friction than dinitrobenzene	10 tonnes

• **Oxidizing Substances**

Characteristics	Threshold Quantity
Substance which give rise to highly exothermic reaction when in contact with other substances particularly flammable substances	10 tonnes

