

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

CIMAH

ABOUT US

PLCGROUP is a Malaysian company, owned and managed by 100% bumiputra. **PLCGROUP** is organized into several independent operational divisions that services the Health, Safety & Environmental (HSE), industrial engineering and innovative technologies market requirements.

PLCGROUP is founded to meet the demands of the Oil & Gas, major hazard industries and the general industries. The consequent success in this field resulted in a decision to diversify operation into the supporting and complementing sectors.

The PLCGROUP of companies consists of:

- ◆ **PLC International Sdn Bhd**
HSE & Emergency Management
Consultancy & Training Services
- ◆ **Safelink Sdn Bhd**
Safety, Emergency & Medical
Equipment & Solutions, Corporate
Premium Items
- ◆ **NH Systems Sdn Bhd**
Project Management
- ◆ **I-Pix Technologies Sdn Bhd**
Innovative HSE & ICT Solutions
- ◆ **Forum Harmony Sdn Bhd**
Holistic Wellness, General Trading &
Supplies



CONTACT US

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This regulation was promulgated on 1st 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**.

First Level. Any activities involving Hazardous Substances less than threshold quantity or more than 10% of the threshold quantity, 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.



Second Level. Any activities involving Hazardous Substances at or above the threshold limit are classified as major hazard installation. The manufacturer is required 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.



OUR SERVICES

TECHNICAL HSE

HSE Case
Quantitative Risk Assessment (QRA)
Fire, Explosion & Dispersion Modeling
Ventilation & Dispersion Modeling
Hazard & Operability Studies (HAZOP)
Hazard Identification (HAZID)
Fire Risk Assessment

HSE MANAGEMENT

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

LEGISLATIVE COMPLIANCE

Control of Industrial Major Accident Hazard (CIMAH)
HSE Legislative Compliance Review
Chemical Health Risk Assessment (CHRA)
Demonstration of Safe Operations (DOSO)

EMERGENCY MANAGEMENT

Emergency Response Plan (ERP)
Business Continuity Plan (BCP)
Incident Command System (ICS)
Hazardous Material (HAZMAT) - Mercury
Management of Major Emergencies using Simulator

INSPECTION & MONITORING SERVICES

Radiation Leak Test
Exposure Monitoring (BTEX, Mercury, TENORM)
Indoor Air Quality (IAQ)
Drilling Rig Pre-Hire Survey
Well Services & Equipment
Risk-Based Inspection
Infrared Thermography
Vendor Inspection, Expediting & Coordination

HSE IT SOLUTIONS

Consequence & Risk Assessment Modeling
Malaysian HSE Legal Register
Competency Based Training (any topics)
Personnel Tracking System (biometric technology)
HSE Online Documentation System
Accident Investigation Reporting System

OTHER SPECIALISED SOLUTIONS

Behaviour Based Safety (BBS)
Defensive Driving



The hazardous substances are summarized below with its threshold quantity.

• 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
Flammable liquids	- flash point lower than 55 degrees Celsius	200 tonnes

• 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

