DO No. 136-14 : Guidelines for the Implementation of GHS in Chemical Safety Program in the Workplace

Engr. Nelia G. Granadillos
Chief, Environment Control Division
Occupational Safety and Health Center
1. United Nations Conference on Environment and Development (UNCED) in Rio de Janeiro Brazil
2. World Summit on Sustainable Development (WSSD) in Johannesburg 2002
3. Inter-Organization Programme on the Sound Management of Chemicals (IOMC)
4. Economic and Social Council of the United Nations (ECOSOC)

This international legal instrument is considered to be a “non-mandatory recommendation”
GHS Implementation in the Philippines


2. Creation of the National GHS Implementation Committee & the development of the National Implementation Plan
   - governing board chaired by BOI
   - composed of sectoral committee (industrial workplace)
   - represented by 26 gov’t. agencies, 4 including associates & 5 public interest and labor only

3. Awareness Raising & Capability Building
   - by Japan External Trade Org (JETRO)
   - Association for Overseas Technical Scholarship (AOTS)
   - United Nations Institute for Training and Research (UNITAR)

4. Issuance of the GHS Joint Administrative Order No. 1 Series of 2009 – which serves as the national regulation
Joint Administrative Order 01 (JAO) Series of 2009

• The adoption and implementation of the Globally Harmonized System (GHS) of classification and labelling of chemicals
• The objective of the JAO is to adopt and implement the classification criteria, labeling and Safety Data Sheet (SDS) requirements of the GHS.
• Signed by 8 cabinet secretaries: DTI, DENR, DA, DOF, DOH, DILG, DOLE and DOTC to ensure the involvement and commitment of concerned government agencies in addressing the GHS implementation
DO No. 136-14: Guidelines for the Implementation of GHS
February 28, 2014

Legal Authority

• Pursuant to the provisions of Article 162 and 165 of the Labor Code of the Philippines;
• Joint Administrative Order No 1 series of 2009 on the Adoption and Implementation of GHS;
DO No. 136-14: Guidelines for the Implementation of GHS

• Serves as Implementing Rules and Regulations (IRR) to implement the provisions of GHS in the industrial workplace sector;
• Amends the chemical labelling provisions in Rule 1090 of the Occupational Safety and Health Standards;
• Issued by DOLE in consultation with tripartite partners: industry and workers group and other government agencies
Salient Provisions of the Guidelines

• Coverage: ALL WORKPLACES engaged in the manufacture, use, storage of INDUSTRIAL CHEMICALS, in the private sector, including their supply chain
Objectives

- To protect the workers and properties from the hazards of chemicals
- To prevent and reduce the incident of chemically induced accidents, illnesses and death resulting in the misuse of chemicals
Roles and Responsibilities

EMPLOYER(S) shall

- Ensure development, implementation and monitoring of the Chemical safety policy and program
- Ensure that all chemicals are properly labeled and Safety Data Sheets are provided in accordance with GHS.
- Provide the necessary control measures including the appropriate personal protective equipment;
Roles and Responsibilities

EMPLOYER(S) shall

- Ensure that workers are provided with the appropriate information, education and training on GHS and chemical safety;
- Establish and implement chemical emergency response plan to mitigate accidents like accidental exposure, inadvertent release, and fire or explosion.
- Ensure that the Safety Officer is in charge of the overall responsibility for chemical safety in the establishment.
Roles and Responsibilities

EMPLOYEE(S) shall

- Comply with the chemical safety policy and program.
- Take all reasonable steps to eliminate or minimize risk to themselves and to others from the use of chemicals at work.
- Observe proper use of all safeguards and safety devices.
- Report immediately to their supervisor any situation which they believe could present a risk of chemicals.
V. Roles and Responsibilities

HEALTH and SAFETY COMMITTEE

- Adopted Rule 1040 of the DOLE-OSHS
- The committee is composed of management and worker representatives
- The composition is based on the size of establishment
GHS Hazards classification criteria

Physical Hazards:
- Explosive
- Flammability
- Oxidizers
- Self-Reactive
- Pyrophorics
- Self-Heating
- Organic Peroxides
- Corrosive to Metals

Health effects:
- Acute toxicity
- Skin irritation/corrosion
- Eye irritation/corrosion
- Sensitisation
- Germ cell mutagenicity
- Reproductive toxicity
- Carcinogenicity
- Specific target organ systemic toxicity (TOST)
- Aspiration Hazard

Environmental Hazard: Hazardous to Aquatic Environment
Hazardous to the ozone layer
<table>
<thead>
<tr>
<th><strong>Epichlorohydrin</strong></th>
<th><strong>Product identifier</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Chloro-2,3-epoxypropane</td>
<td></td>
</tr>
<tr>
<td>CAS No. 106-89-8</td>
<td></td>
</tr>
<tr>
<td>UN No. 2023</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th><strong>Symbols</strong></th>
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<tbody>
<tr>
<td><img src="image1" alt="" /></td>
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<tr>
<td><img src="image2" alt="" /></td>
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<tr>
<td><img src="image3" alt="" /></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>DANGER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal word</strong></td>
</tr>
<tr>
<td>Hazard statements:</td>
</tr>
<tr>
<td>• Flammable liquid</td>
</tr>
<tr>
<td>• Toxic if swallowed</td>
</tr>
<tr>
<td>• Toxic in contact with skin</td>
</tr>
<tr>
<td>• Fatal if inhaled</td>
</tr>
<tr>
<td>• May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>• May cause genetic defects.</td>
</tr>
<tr>
<td>• May cause cancer</td>
</tr>
<tr>
<td>• Cause severe skin burns and eye damage</td>
</tr>
<tr>
<td>• Toxic to aquatic life</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Precautionary statements:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supplier identification</strong></td>
</tr>
<tr>
<td>United Nations Corp.</td>
</tr>
<tr>
<td>1-1, Peace Ave., Geneva</td>
</tr>
<tr>
<td>Switzerland</td>
</tr>
<tr>
<td>Tel. 41 22 917 00 00</td>
</tr>
<tr>
<td>Fax. 41 22 917 00 00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Hazard statements</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Keep out of reach of children.</td>
</tr>
<tr>
<td>• Keep container tightly closed.</td>
</tr>
<tr>
<td>• Do not handle until all safety precautions have been read and understood.</td>
</tr>
<tr>
<td>• Wear eye/face protection.</td>
</tr>
<tr>
<td>• Wear protective gloves/clothing.</td>
</tr>
<tr>
<td>• Wear respiratory protection, as specified by the manufacturer.</td>
</tr>
<tr>
<td>• Do not breathe dust/fume/gas/mist/vapours/spray.</td>
</tr>
<tr>
<td>• Use appropriate ventilation.</td>
</tr>
<tr>
<td>• Wash thoroughly after handling.</td>
</tr>
</tbody>
</table>
# GHS Pictograms

**GHS Pictograms and Hazard Classes**

<table>
<thead>
<tr>
<th>Oxidizers</th>
<th>Flammables</th>
<th>Explosives (1.1-1.4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-reactives</td>
<td>Pyrophorics</td>
<td>Self-reactives</td>
</tr>
<tr>
<td>Pyrophorics</td>
<td>Self-heating</td>
<td>Organic peroxides</td>
</tr>
<tr>
<td>Emits flammable gas</td>
<td>Organic peroxides</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute toxicity (severe)</th>
<th>Corrosive to metals</th>
<th>Gases under pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>Skin corrosion</td>
<td>Skin/eye irritation</td>
</tr>
<tr>
<td>Serious eye damage</td>
<td>Skin sensitization</td>
<td>Specific target organ toxicity (single)</td>
</tr>
<tr>
<td>Hazardous to the ozone layer</td>
<td>aquatic toxicity (acute)</td>
<td>aquatic toxicity (chronic)</td>
</tr>
</tbody>
</table>
# GHS Pictograms

<table>
<thead>
<tr>
<th>Carcinogenicity</th>
<th>Aquatic toxicity (acute)</th>
<th>Acute toxicity (harmful)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory sensitization</td>
<td>Aquatic toxicity (chronic)</td>
<td>Skin/eye irritation</td>
</tr>
<tr>
<td>Toxic to reproduction</td>
<td></td>
<td>Skin sensitization</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated)</td>
<td></td>
<td>Specific target organ toxicity (single)</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td></td>
<td>Hazardous to the ozone layer</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
GHS Safety Data Sheet

1. Identification of the substance or mixture and of the supplier
2. Hazards identification
3. Composition/information on ingredients
4. First aid measures
5. Firefighting measures
6. Accidental release measures
7. Handling and storage
8. Exposure controls/personal protection
9. Physical and chemical properties
10. Stability and reactivity
11. Toxicological information
12. Ecological information
13. Disposal considerations
14. Transport information
15. Regulatory information
16. Other information including information on preparation and revision of the SDS
Confidential Business Information (CBI)

Claims should be limited to the names of chemicals and the concentration in mixtures.

No disclosure shall be done except for:

1. When the provisions for CBI compromise the health and safety of workers;

2. During emergency situations.
Chemical Safety Program Elements

- **Facilities and Control Measures**
  Interventions to provide protection of workers through Engineering and Administrative Controls and PPE

- **Workers’ Right to Know**
  - shall cover training and information on chemical safety and orientation on chemical safety data sheets.
  - Has the right of refusal to work if an imminent danger situation exists until the corrective action to eliminate the danger is achieved.
Storage Requirement and Inventory

- Chemicals procured shall have GHS label and safety data sheet;

- Have adequate, well-ventilated storage space for chemicals and proper segregation of chemicals

- Chemicals classified to any GHS Health Hazards Danger Category should be kept under strict control.

- Stored chemicals should be examined periodically for replacement, deterioration, and container integrity. Storage temperature, humidity and ventilation requirements as stated in the SDS should be followed.
Storage Requirement and Inventory

- Quantities of chemicals to be stored shall be kept to the minimum amount.
- There should be adequate security of and access to chemical storage areas.
- Periodic inventories shall be conducted regularly.
Existing OSH Rules Adopted

1. Personal Protective Equipment – Rule 1080
2. Work Environment Measurement – Rule 1070
3. Occupational Health and Medical Surveillance – Rule 1960
3. Waste Management - DENR
Occupational Health and Medical Surveillance

- This shall include regular biochemical monitoring for workers exposed to toxic substances classified under toxicity categories I and II of WHO standards.
- It shall be free of charge for the workers.
- The employees’ medical record is considered confidential and only upon the expressed approval of the employees that the employer furnish a copy to any third party.
Emergency Preparedness and Response

- A written emergency procedure posted in the workplace and communicated to all workers in the area.
- Appropriate and adequate emergency equipment provided and well trained emergency response team.
Monitoring Procedure

The Bureau of Working Conditions (BWC) through the DOLE Regional Offices shall monitor compliance to the Guidelines.
Penalties

All violations of the provisions of these guidelines shall be subject to the applicable penalties provided for in the Labor Code, PD 442 as amended.
Transitory Provision

All establishments using industrial chemicals shall be required to comply with all the requirements in this Guidelines within one (1) year upon effectivity.
Who is responsible for implementing the GHS in the Philippines

• The GHS provisions become mandatory in countries or regions that adopt the GHS

• Overseeing national implementation is the responsibility of the competent authorities that adopt the GHS provisions.

• There is no international body that monitors implementation for compliance
Thank you