Chemicals/Hazardous Substances Management in Indonesia



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I. Introduction

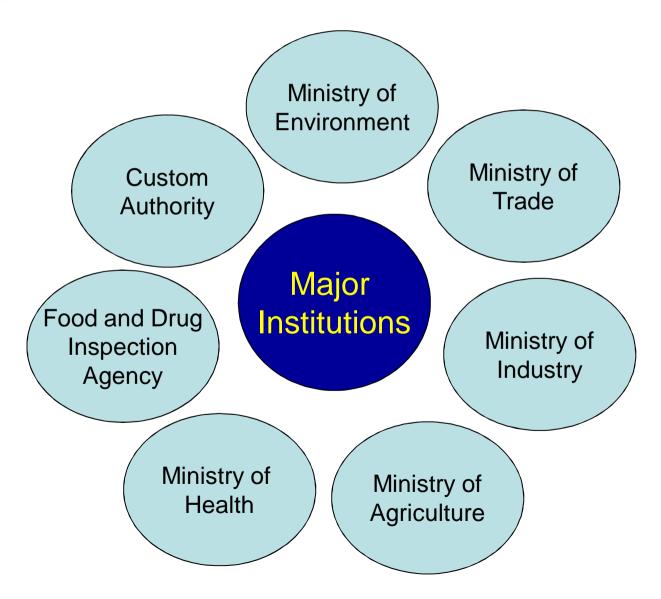
Challenges

- The largest archipelagos
- Agriculture based industry
- Chemical industry
- Petrochemical

- Illegal Trafficking
- Persistent Organic Pollutants
- Hazardous wastes treatment facilities



2. Related Government Actors **Chemical Management**





3. Environmental Related Policy Framework

- Environmental Protection and Management ACT No. 32/2009
- Government Regulation No. 18/1999 Juncto Government Regulation 85/1999 on Hazardous Wastes Management
- Government Regulation No 74/2001 on Hazardous Substances Management

Currently being revised

- Ratification of Basel Convention on 1993
- Ratification Montreal Protocol 1995
- Ratification of Stockholm Convention on 2009
- Ratification of Rotterdam
 Convention on 2013
- Signed of Minamata Convention on 2013



4. Hazardous Substances (B3) Management

Government Regulation No 74/2001 on Hazardous Substances Management

Objective

Prevent and/or reduce impact and risk of hazardous substances to the environment, human health and life being

Principles

- ✤ B3 minimization
- Integrated management (production; storage; usage)
- Sustainable development principle



Government Regulation No. 74 Year 2001

- Definition
- Scope of regulation
- Hazardous substances classification
- Registration, notification, storage, symbol and label, transportation, controlling
- List of chemicals



Definition

Hazardous substances is subtance/material which its nature or and its amount and or its concentration, either directly or indirectly, can pollute or damage the environment, and or may endanger the environment, human health, and survival of human beings as well as other life.



Scope of Regulation : EXCEPTION

- Radioactive materials,
- Explosives,
- Mining and production of oil and gas and their processed products,
- Food and beverages and other food additives,
- Household medical supplies,
- Cosmetics,
- Pharmaceutical ingredients,
- Narcotics, psychotropic substances and precursors as well as other addictive substances,
- Chemical weapons and biological weapons



Classification

Characteristics

- 1. Explosive
- 2. Oxidizing
- 3. Extremely flammable
- 4. Highly flammable
- 5. Flammable
- 6. Extremely toxic
- 7. Highly toxic
- 8. Moderately toxic
- 9. Harmful
- 10. Corrosive
- 11. Irritant
- 12. Dangerous to the environment
- 13. Carcinogenic
- 14. Teratogenic
- 15. Mutagenic

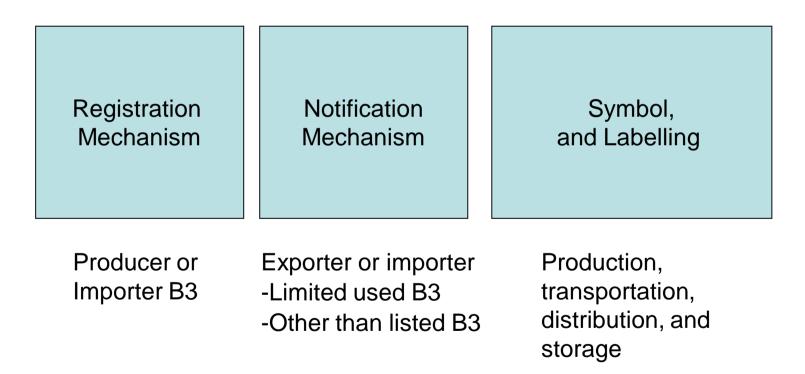
- Can be used
- Limited used
- Banned for used



Usage



Hazardous substances Controlling Instrument





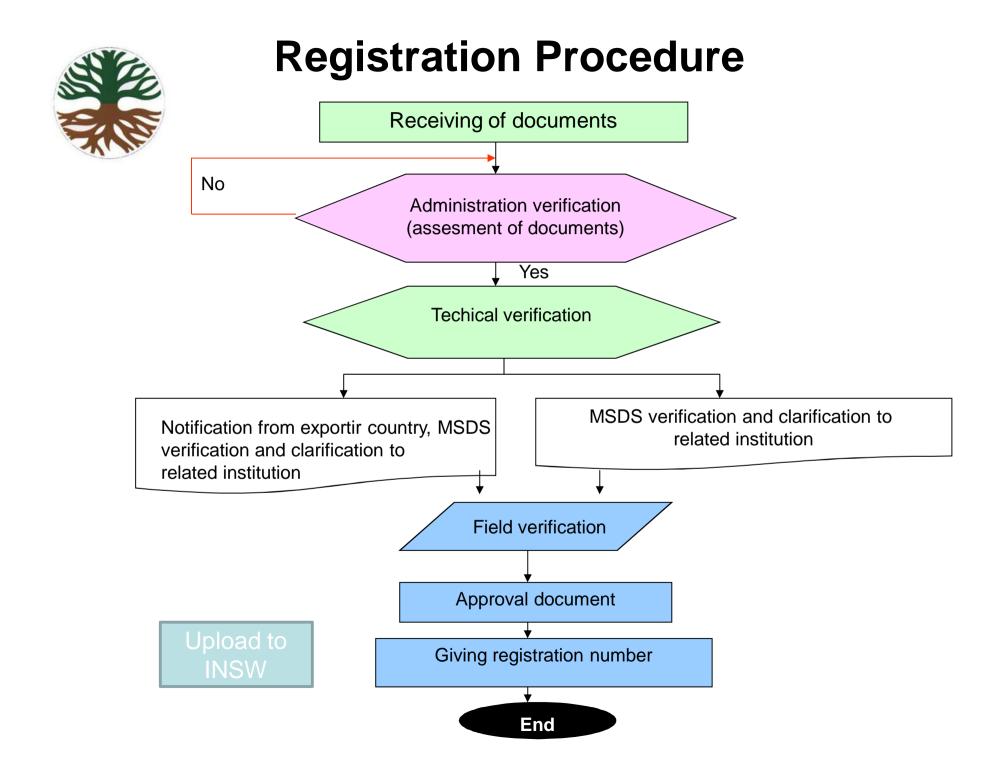
Registration and Notification

REGISTRATION

- Registration of hazardous substances which are manufactured and imported with the purpose to find out the distribution of hazardous substances in Indonesia.
- Each hazardous substances should be registered by producer or importer.

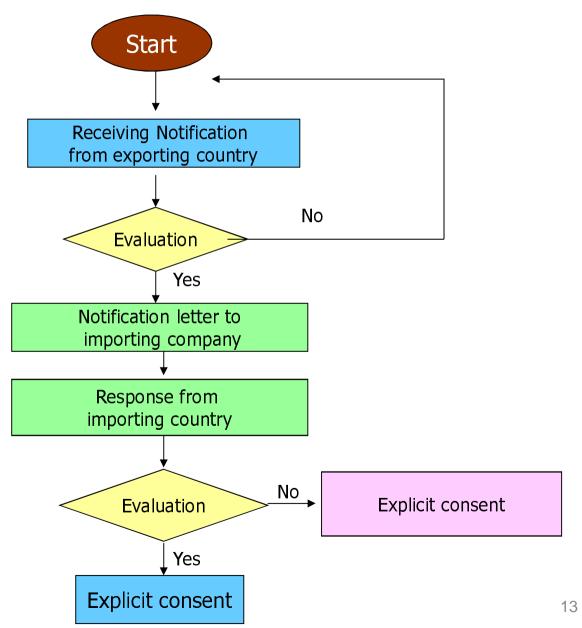
NOTIFICATION

Notifications for importation is the prior informed consent from the authorities of the exporting country regarding the transboundary movement of restricted hazardous substances or first imported hazardous substances.





Notification Procedure





Symbol and Labell

Ministerial Decree No. 03 year 2008 on Procedure for Providing of Symbol and Label on Hazardous and Toxic Substance

- Every packaging of B3 shall be provide with symbol and label of B3 in accordance to their classification
- Every storage and transportation vehicle shall be provided with symbol and label of B3 in accordance to their classification
- Single substance
 - Moving forward to Global Harmonized System



Indonesia National Single Window

DEFINITION

An Indonesian national system that provide single submission of data and information, single and synchronous processing of data and information and single decision making for custom release and clearance of cargoes.

OBJECTIVE

To increase efficiency of time and cost in customs release and clearance of cargoes process and at the same time to prevent illegal traficking of hazardous substance;



LATEST DEVELOPMENT





5. Revision of GR No. 74/2001

- Basis for revision
 - Mandate of Act No. 32/2009
 - International Agreement or Convention : Stockholm Convention, Rotterdam Convention, SAICM, GHS
 - Chemical development
 - Evaluation of the implementation
- Changes
 - − Classification : characteristics ⇒ GHS
 - Type of chemicals : single, mixture, preparat ion
 - List of chemicals
 - Scope of regulation
 - Technical team



Revision of GR No. 74/2001 (con'td)

- Latest development:
 - Draft has been discussed with other ministries :
 - Harmonization with draft of chemical act
 - Role of ministries and local government
 - List of chemicals
 - Issued that has been raised by industrial sectors:
 - Scope of regulation
 - Cut-off value
 - List of chemicals
 - Information access for public
 - Harmonization and synchronization with others existing chemical regulations



Guideline of Hazardous Substances Storage

- Basis for development : – Article 18 GR No. 74/2001
- Latest development :
 - Draft of guideline has been discussed with industries and laboratories.



Hazardous Substances Technical Team

- Basis for formation :
 - Article 21 GR No. 74/2001
- Draft of Technical Team
 - Members : relevants ministries, universities, industrial associations, environmental organizations
 - Tasks : recommend hazardous substance categorization and importation on new hazardous substance



Technical Team (con'td)

- Latest development:
 - Initial meeting with relevant ministries has been done. Issues that has arised were purpose of formation, scope of work and relation to other existing teams.



Chemical Inventories and Data

- Registration and Notification Data
- Hazardous substances that can be used
- Hazardous substances that limited used



- Name of chemical
- Country of origin
- Volume of import
- The usage



6. GHS Implementation in Indonesia



Globally Harmonised System (GHS)

Globally Harmonised System of Classification and Labelling of Chemicals (GHS) is:

- an international system that harmonized the classification and labelling of hazardous chemicals
- □ a logical and comprehensive approach for:
 - defining health, physical, and environmental hazard of chemicals

applying agreed hazard criteria to classify chemicals based on their hazardous effects

communicating hazard information on labels and safety data sheets



GHS Application for Chemicals

GHS is applied for chemicals excluding pharmaceutical, additives used as end products in food, cosmetics, chemical residue, and waste





Sectors of GHS implementation

- 1. Workplace, particularly industrial workplace
- 2. Agriculture (pesticide), involve both workplace and consumer exposures
- 3. Transport, including distribution of hazardous chemicals
- Consumer products, involve products sold to general public, and exposures of vulnerable population



Benefits of GHS

- 1. Enhances the protection of human health and the environment through the provision of harmonized chemical safety and health information
- 2. Reduces the need for duplicative testing of chemicals
- Provides the informational infrastructure for chemical safety and health management programs
- 4. Increases efficiencies; reduces costs of compliance; lower health care costs



Current Status

Legal Basis

• UN GHS Purple Book (Latest version)

Ministry of Industry

Decree of Minister of Industry No. 87/M-IND/PER/9/2009 regarding Globally Harmonized System of Classification and Labeling of Chemicals
Decree of Minister of Industry No. 23/M-IND/PER/4/2013 regarding the Revision of Decree of Minister of Industry No. 87/M-IND/PER/9/2009 regarding Globally Harmonized System of Classification and Labeling of Chemicals
Decree of Director General of Agrochemical No. 21/IAK/PER/4/2010 regarding Technical Training of GHS Implementation for Classification and Labelling on Chemicals



GHS Regulation in Indonesia

Previous	Current
Decree of Minister of Industry No. 87/M-IND/PER/9/2009	Decree of Minister of Industry No. 23/M-IND/PER/4/2013
GHS is mandatory for single substance and will be mandatory in December 31 st 2013 for mixtures	GHS is mandatory for single substance and will be mandatory in December 31 st 2016 for mixtures
It is not clearly stated that GHS application for import and domestic products	It is clearly stated that GHS application for import and domestic products, plus the exemptions for Small Medium Enterprises (SMEs)
Refer to UN GHS Purple Book 2 nd Edition	Refer to UN GHS Purple Book 4 th Edition
There is no class for environmental hazards	Class for environmental hazards: hazardous to aquatic (acute and chronic) and ozone layer
MSDS (Material Safety Data Sheet)	Changed to : SDS (Safety Data Sheet)



Current Status

Summary of Decree of Minister of Industry. No. 23/M-IND/PER/4/2013 (as Revision of Decree of Minister of Industry No. 87/M-IND/PER/9/2009)

- Chemical substances are obliged to be tagged with label(s)
- Chemical substances are obliged to own Safety Data Sheet (SDS)
- Every stakeholder who produce chemical substance is obliged to determine classification hazard tag label onto the package compiling Safety Data Sheet (SDS), review and revise at least for 5 years
- Every stakeholder who repack chemical substance is obliged to tag label(s), name and address of repacker, net weight, and compiling Safety Data Sheet (SDS)
- Every stakeholder as mentioned in referenced Decree is obliged to give report to Director General of Manufacturing Industry Basis, Ministry of Industry



Current Status



Covers 28 physical, health, and environmental hazards





GHS Application

- Single substance chemicals both for domestic production and import are compulsory and required to implement GHS ever since March 24th 2010
- Chemical Mixtures are voluntarily required to implement GHS, however after **December 31st 2016**, mixtures both for domestic production and import are compulsory and required to implement GHS. Exemption: Small Medium Enterprises (SMEs)

- Companies especially MNCs and export's manufacturers have implemented Safety Data Sheet and Labels based on GHS
- Compile the Draft of Technical Instruction of Director General of Manufacturing Industrial Base (as revision Decree of Director General of Agrochemical No. 21/IAK/PER/4/2010) to determine building block, cut-off value for chemicals, and Confidential Business Information (CBI)







Rotterdam Convention

Indonesia ratified Rotterdam Convention at 2013. Act No. 10 Year 2013



Stockholm Convention

Ratified of Stockholm Convention at 2009. Act No. 19 year 2009

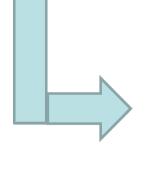
Minamata Convention

Indonesia signed of Minamata Convention at 2013



Implementation in Indonesia

Rotterdam Convention



B3 Notification

Stockholm Convention

UPOPs (dioxin/furan)

Demonstration project : Implementation of BEP in fossil fuel utility industrial sector – monitoring of dioxin/furan

Curriculum Development on green boiler

Boiler study and biomass fuel

Capacity building : training for boiler operator, training on curriculum development

PCBs

 Monitoring of PCBs residue in water, sediment, biota.
 Inventarisation of equipment with PCBs content

Pesticides

Monitoring of pesticides POPs residue in water, sediment, biota

Up-date NIP

> Inventarisation of new and the original POP's

> work plan



Minamata Convention

Current Activities that is being done to support the ratification

- Identification and Inventarisation of regulation and technical data through the activities:
- Workshop/Sosialization
- Monitoring and analisys
- Data processing
- Preparation of the study
- 2. Technical and Coordination Meeting
- 3. Preparation of National Action Plan









8. Challenges: Planning and Implementation of Regulations

- The consistency of national regulations with international policies and other countries' policies .
- The growing demands of chemical substances should be anticipated by the regulations.
- The number of ministries who involved in chemical management provide challenges in coordination.
- The capacity of human resources and infrastructure.



9. Strategic Directions

Governance

Other chemicals International Cooperation and agreements

Monitoring Capacity

- Technical team for Hazardous Substances
- Preparation of Chemicals Act
- Revision of Government Regulation No. 74 Year 2001

• SAICM

Human ResourcesInfrastructure including laboratory



Terima kasih Thank you www.menlh.go.id