Experience from establishing chemicals legislation*

Considering Chemicals legislation

Seminar of the MMA on LIRA Brasilia 19 March 2014

Torbjörn Lindh Swedish Chemicals Agency

* Lessons from co-operation projects between KemI and authorities in other countries



Chemicals legislation

is meant to minimize risks due to the hazards from substances already when chemicals are spread for technical use (when placed on the market)

- c elements
- ance early action on possible risks from chemicals, with the of classification, labelling and safety data sheets
 - Restrict the access to substances of very high concern because of the adverse effects they may have on humans, property and the environment



Systems for information and restrictions give rise to activities in industry

Classification and labelling, the production and use of SDS as well as periods of grace before restrictions enter into force create everyday risk management activities within the ranks and files of industry and trade. Other rules are supportive to this and to enforcement

Compare to systems for licensing or permits



Chemicals legislation supports the other areas and sectors

Basic elements in action

Restrictions that limit the access to certain high concern substances or groups of substances

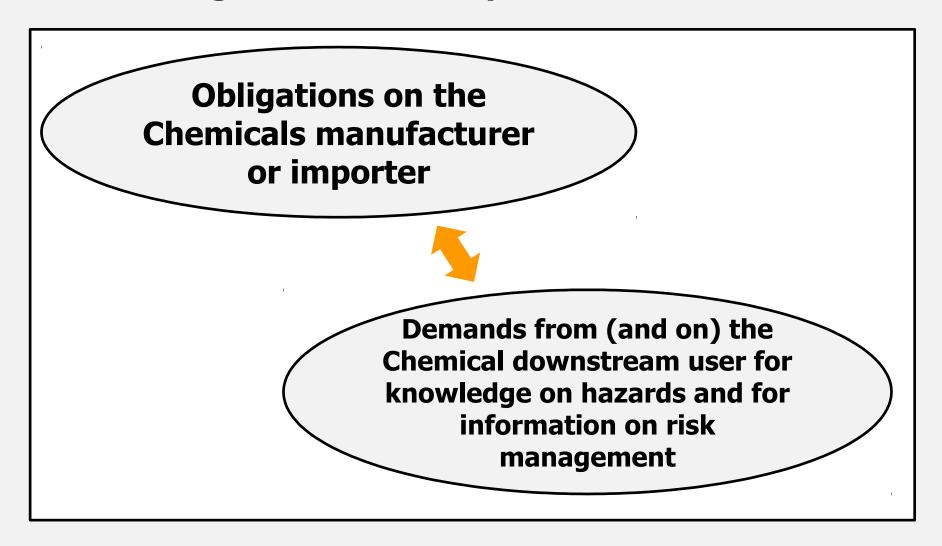
Classification and labelling from suppliers

Safety data sheets from suppliers to professional users Supporting risk reduction everywhere chemicals are a concern:

Control of major chemical hazards,
Consumer protection, Emission control,
Contaminated soils remediation,
Food safety, Protection of children,
Public health, Waste disposal,
Workers health & safety,
etc.

Principle of inter-action within the supply chain

Chemicals legislation works up and down the chain



Principle driving force: Users need to know about risks

(More about estimating the degree of risk management)

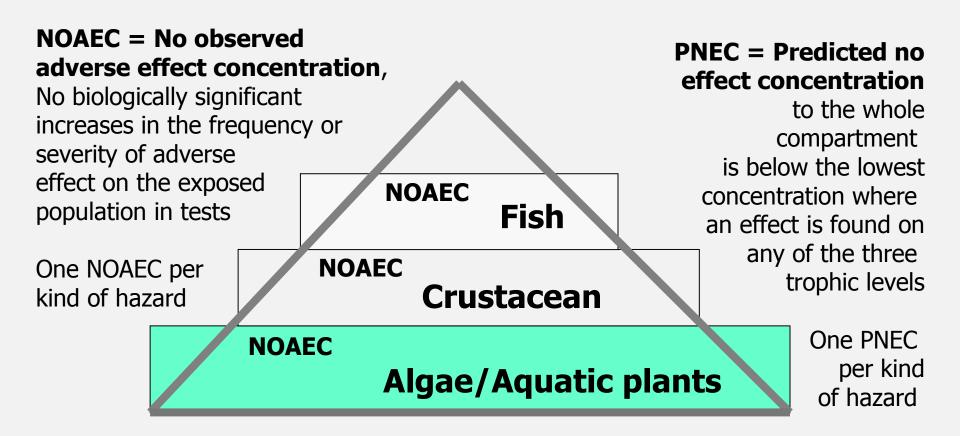
Chemical safety assessment

Actual exposure for the substance
/
Derived no effect dose, or the predicted no
effect concentration
is ≤ 1

Considered adequate control



Data used for estimating adequate risk control, hazards to the aquatic ecosystems



PNEC is the NOAEC of the eco-system compartment multiplied with an uncertainty factor which depends on the quality of your data

Actual exposure how to estimate?

Main route: Predict/Derive exposure from an exposure scenario

If exposure is already taking place, follow practices of sampling from representative points of the aquatic area



(More about estimating the degree of risk management)

If the conditions for use and the risk management recommendations assure that:

The actual exposure for the substance /

The derived no effect dose, or the predicted no effect concentration

is **≤** 1

it is considered adequate control



Upstream obligations are efficient and resource effective,

Because manufacturers and importers are few compared to the number of downstream users, possible use and sites of handling chemicals

The number of chemicals is low compared to the indefinite number of applications of chemicals (in other articles, in special chemicals or in equipments)



Framework primary law (on the level of the legislator)

Scope of the law

General definitions for the law purpose

Basic obligations and clear addresses of obligations

General exemptions

Regulatory mandates, tasks and powers of the ministry, the competent authority and the enforcement body

Desciption of possible offenses &

the corresponding penalties

Transparency rules, rights of the public to know





Secondary law, application rules (Government, ministers & mandated bodies)

Decree/Regulation/Ordinance/Ministerial decision

Subject

References to the law (mandate, obligations ..)

Precise definitions for the purpose of the application rules

Precise mandatory requirements and the corresponding requisites

Detailed exemptions

Leading instructions

Formats and templates



Framework principal lines, main dispositions & main obligations

Administrative and technical application requisites, requirements, requests and instructions

Demands on administration Instructions Daily tasks

Detailed everyday
demands on
manufacturers /
importers and users
incl. physical persons

Rights of the general public in daily life

Serbian scheme of Chemicals legislation

Framework Law on Chemicals

Horisontal legislation, Parallel to legislation in other areas

Rulebooks pursuant to the Law on Chemicals:

Bans and restrictions

Classification, labelling and packaging

Safety Data Sheets

List of substances of very high concern

Detergents

Import and export

Criteria on PBT and vPvB

List of surfactants

Reference: http://shema.gov.rs/en/regulations/



Special regulation on biocides and pesticides

Systems for permits for biocidal products and pesticide preparations could preferably be established under special legislation (Law on Biocides; Law on Plant protection products)

Their safe use would better be regulated in the relevant area.

Control of biocidal wood preservation fits for example under both the law on environmental protection and the law for workers health and safety



See Chemicals legislation as a regulatory area of its own

The responsible administration would need an organisation on its own, a certain influence in the state and certain powers to act

It could be organised as a ministerial directorate, a bureau or an agency

It better should report directly to the minister in charge



www.kemi.se

Capacity and main competence areas of the responsible authority (central core administration)

- Generalist competencies of staffs in hazard assessment, risk assessment and risk management
- Some staffs with competencies in chemistry, toxicology and eco-toxicology, able to engage further expertise
- Some competencies in law, socio-economics, envirionmental economy and statistics
 - Capacity to keep a chemicals registry?



The rules should lay down the clear allocation of costs

Each actor may bear the costs for activities fulfilling her obligations

Industry's chemicals management costs may be covered, well- distributed within production and trade and successively diluted by the price-mechanism

If so, administrative costs could become more predictable and stable

Certain costs for administrative services and costs of inspection may be recovered by fees



Subvention or discrimination by cost-allocation and cost-division?

If government takes on costs for the management of hazardous chemicals — it works in real as a "state subvention" to the manufacturers and importers of those chemicals on the expense of chemical suppliers which offer less hazardous alternatives

If costs for risk management is placed on the manufacturer and importer you "level" the market in the positive sense the hazardous alternative, supporting the competiveness of less hazardous alternatives



Industry costs for compliance — main route for successive reduction of cost increases down the supply chain

The price-mechanism is the ordinary instrument to move cost increases downstream the supply chain, the clients takes the increases as long as they find the chemical attractive

The price-mechanism make that way the cost-increase dilute, more actors are sharing it, it means less of an increase by each step since the cost of the chemical is a minor part of the total costs for the client/the downstream user

Fees for administrative services & enforcement

- to treat everyone equally, make fees proportionate costs & to cover overhead
- Fees are supposed to correspond to the costs for providing the service (receive applications, assess the case, prepare decisions and issue decisions)
- Fees could be calculated per day. They could be fixed fees based on some years experience from the kind of cases (you find that it on average takes x days to handle a case)
- Do include your administrative overhead costs in the fee: Salary costs of directors and staffs in supporting functions, rents and maintenance of facilities, IT-equipments, costs for internal formation of staffs, costs for air conditioning and light etc)



Thank you for your attention

www.kemi.se