

25 - 26.10.2023 | DAY 2
Chemical Regulations and
Sustainability Symposium 2023

K-REACH: 2024 registration deadline

K-REACH:2024 registration deadline

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Duration: 30 min

1. Overview

2. Scope & Requirements

3. Registration Process & 2024 Deadline

4. Cost & Penalties

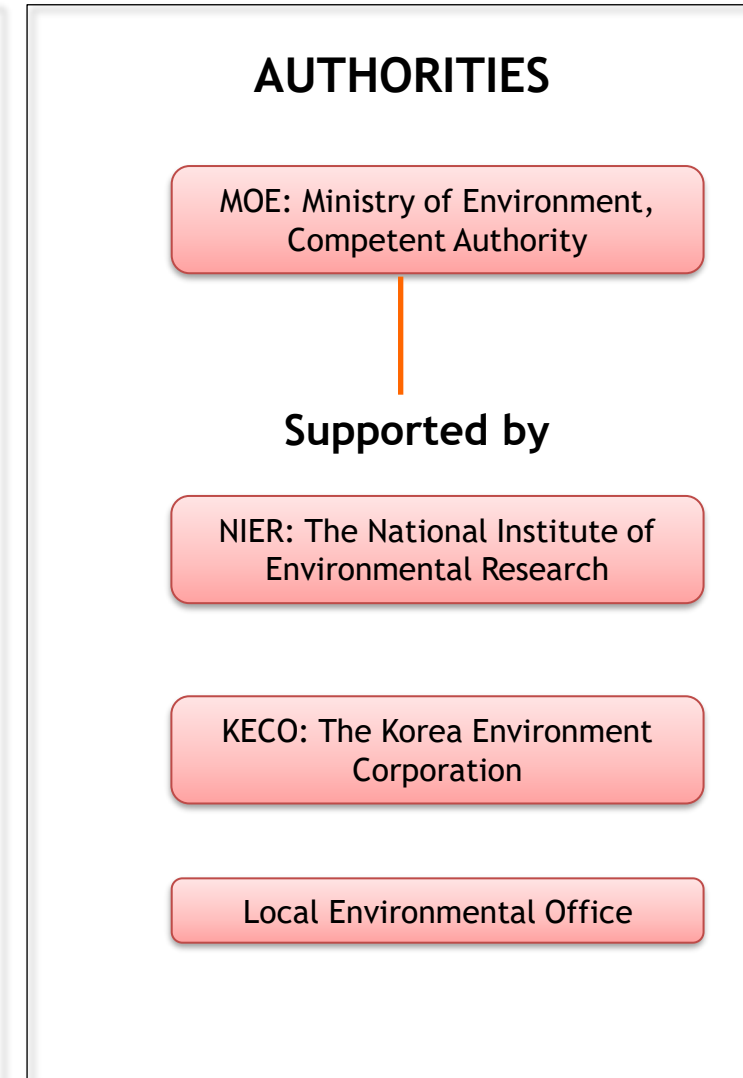
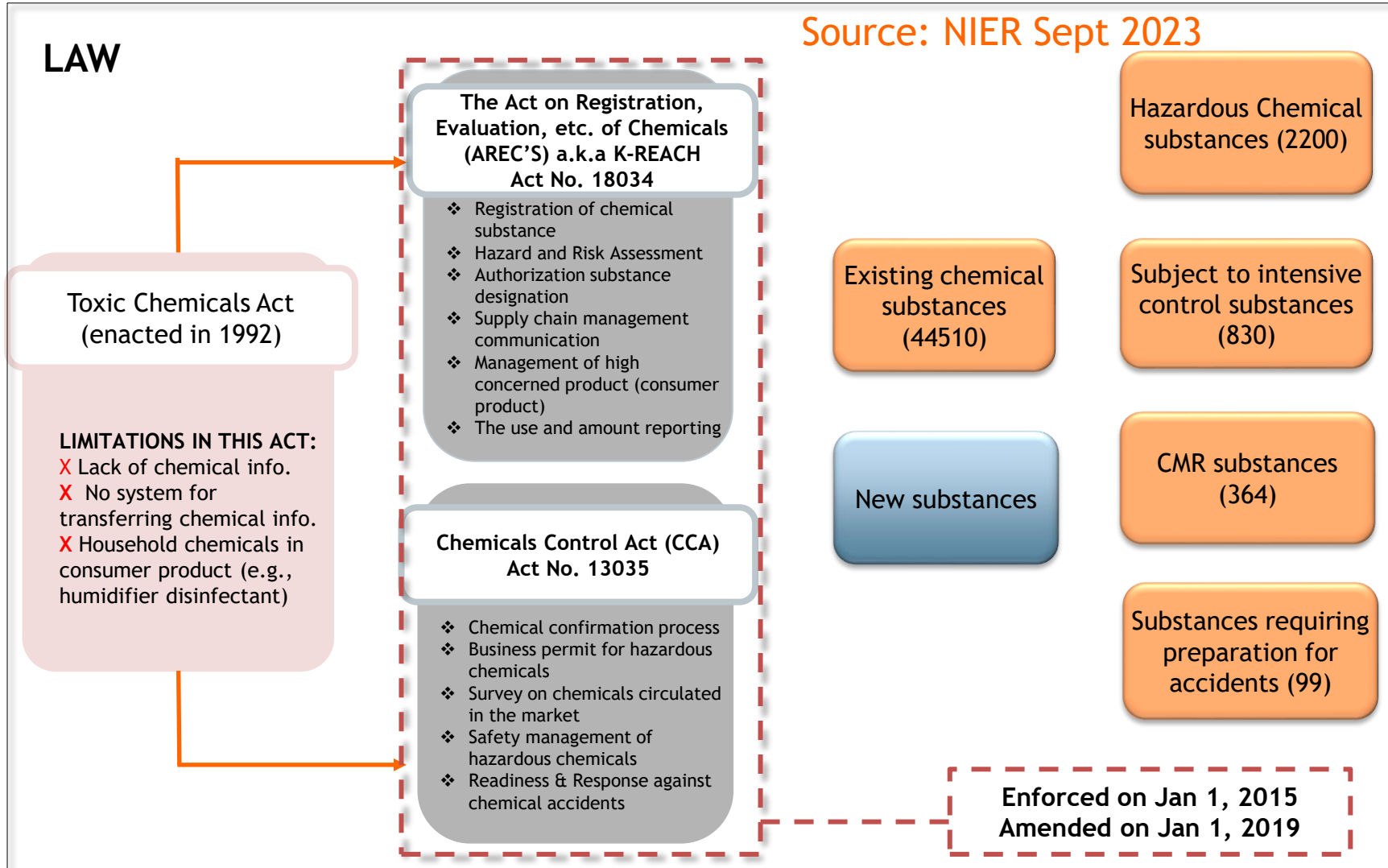
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Overview

Law & Authorities



Overview

Role of Authorities & Industries

MOE: Ministry of Environment,
Competent Authority

LOCAL ENVIRONMENTAL OFFICE

- Preliminary reporting and reporting confirmation of intensively controlled substances contained in products
- Appointment/dismissal confirmation

KOREA ENVIRONMENT CORPORATION (KECO)

- Confirm exemption from registration, etc.
- Confirmation of exemption from hazard review
- Pre-reporting of existing chemical substances
- Approval for use of test data
- Appointment/dismissal confirmation

Result notification

Application

Result notification

Application



INDUSTRY (MANUFACTURERS, IMPORTERS, APPOINTED PERSONS)

- Submission of reports for each task, such as [reporting](#), [registration](#), [registration exemption](#), reporting of intensively controlled substances, etc.
- Application for approval to use test data

Result notification

Application

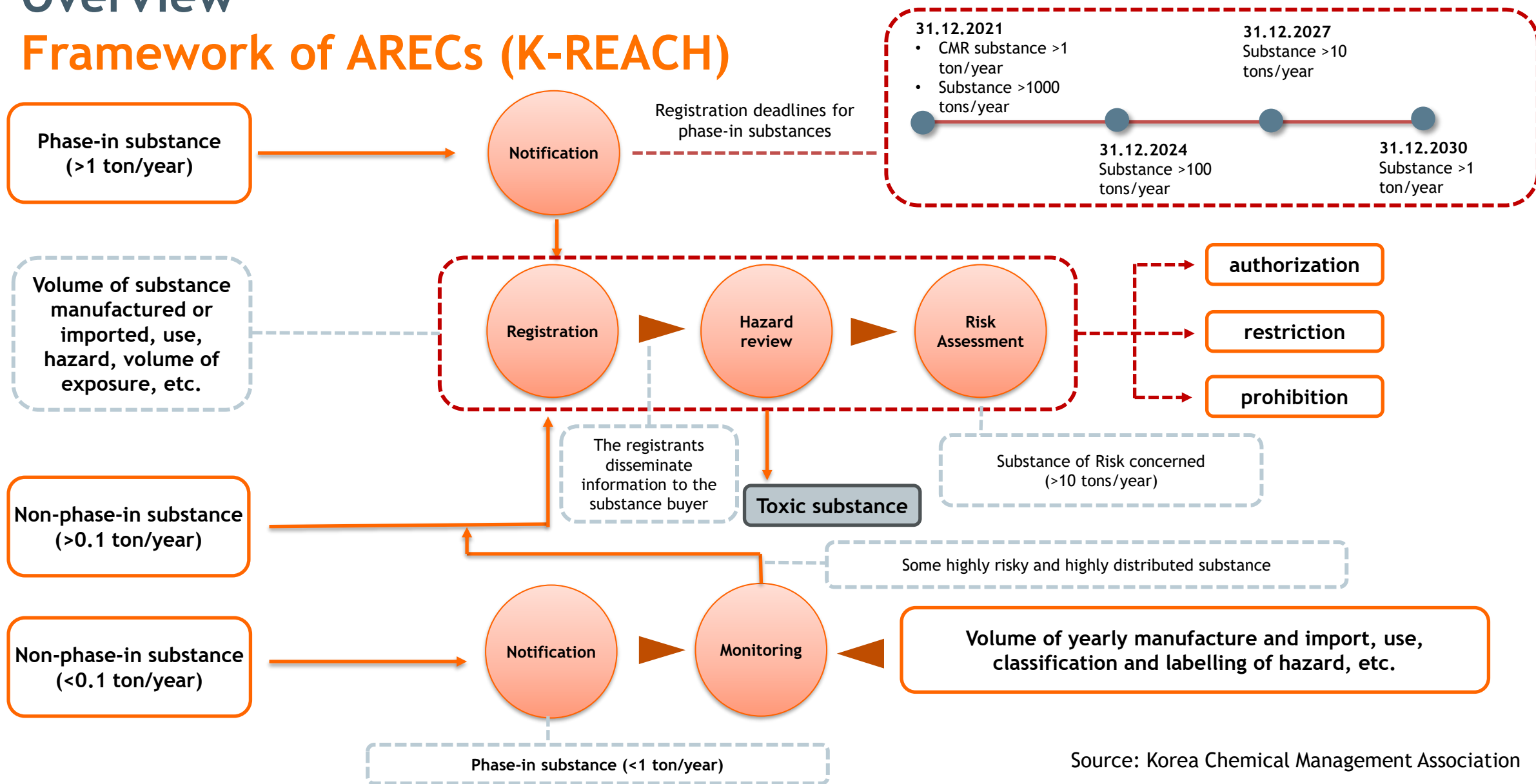
NATIONAL INSTITUTE OF ENVIRONMENTAL RESEARCH (NIER)

- Report/registration of new chemical substances
- Registration of existing chemical substances
- Hazard screening
- Designated as toxic substance
- Risk assessment
- Appointment/dismissal confirmation
- Confirmation of report by person who has undergone hazard review
- Confirmation of registration inquiry
- Verification of consent to use vertebrate animal test data
- Confirm individual submission of registration application

Source: <https://kreach.me.go.kr/>

Overview

Framework of ARECs (K-REACH)



Source: Korea Chemical Management Association

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Scope and Requirements

Scope of Application (Act article3)

This Act shall not apply to chemical substances falling under any of the following:

- 01 Radioactive substances and mixtures
- 02 Drugs of the Pharmaceutical Affairs Act and quasi-drugs
- 03 Narcotics
- 04 Cosmetic products & and raw materials used for cosmetics
- 05 Pesticides and active ingredients
- 06 Fertilizers
- 07 Explosives and Munitions
- 08 Food, Food additives & Feed
- 09 Hygiene products
- 10 Medical devices
- 11 Health functional foods
- 12 Biocidal substances and biocidal products

Scope and Requirements

Exemptions

Exemption from registration or notification Self Declaration

1. Imported as imbedded into the machine ①
2. Imported together with machine or equipment used for test operation
3. Contained in a product that performs a certain function
4. very low risk declared and publicly announced by MoE
 1. Impurities, by-products ETC
 2. Substances existing in nature
 3. Amino acids and its salts

Exemption from registration or notification Only after confirmation from Authority within 30 days

1. wholly exported overseas ②
2. Imported to manufacturer another chemical to be wholly exported overseas
3. Used for scientific experiment, analysis or research such as reagents
4. chemical for research and development
5. Some polymer compounds
6. Surface treated substances
7. Non-isolated intermediate
8. Isolated intermediate

②

② Subject, period and documents of the confirmation of exemption from registration, etc.

Information Required to submit

– Name, CAS No., and estimated volume of manufacture or import

Subject	Period	Documents to be Submitted
1. A chemical manufactured or imported to be wholly exported overseas	Annual unit	Exporting country and export volume
2. A chemical manufactured or imported in order to manufacture another chemical to be wholly exported overseas		
3. A chemical for scientific experiment, analysis or research such as reagents	first time	Specific uses, duration of testing, analysis, research, photos or brochures of chemicals or products, etc.
4. A chemical for research and development – development, etc. of a chemical substance and product	R&D planning unit	Duration of R&D, research institute, safety management plan (submit the current status of safety managers, follow-up measures, and results of post-processing more than 0.1 ton), etc.
5. Some polymer compounds	first time	Name of the monomers, CAS No. and content ratio (%), test data for number average molecular weight and molecular weight distributions
6. A substance which surface has been treated – Both the target and surface treated materials of surface treatment under any of the following subparagraphs: ①For registered chemicals ②When notified as non-phase-in substances less than 0.1 ton ③For chemicals not subject to registration ④In case of pre-registered phase-in substances within the registration grace period	first time	Registration on surface treated subject and surface treatment substance (registration number or receipt), phase-in substance notification(notification form), non-phase-in substance notification (notification number or receipt) or documents process diagrams, reaction structure formula and surface treatment rates that prove that they are not eligible for registration
7. Non-isolated intermediate	first time	Process diagram, etc.
8. Isolated intermediate whose outflow or leakage is blocked by technical means	first time	Process diagram, methods of blocking outflow and leakage, etc.

Scope and Requirements

How to check your chemical obligations at NIER

NEW CHEMICALS

Chemical Search

All

Search Results 0 10 Items per Page

CAS No.	Chemical Name	NIER's No.				Percentage & Regulatory Information	Remark
		KE No.	Hazardous chemical substances	Substances subject to intensive control	CMR substances		

Please type in search here

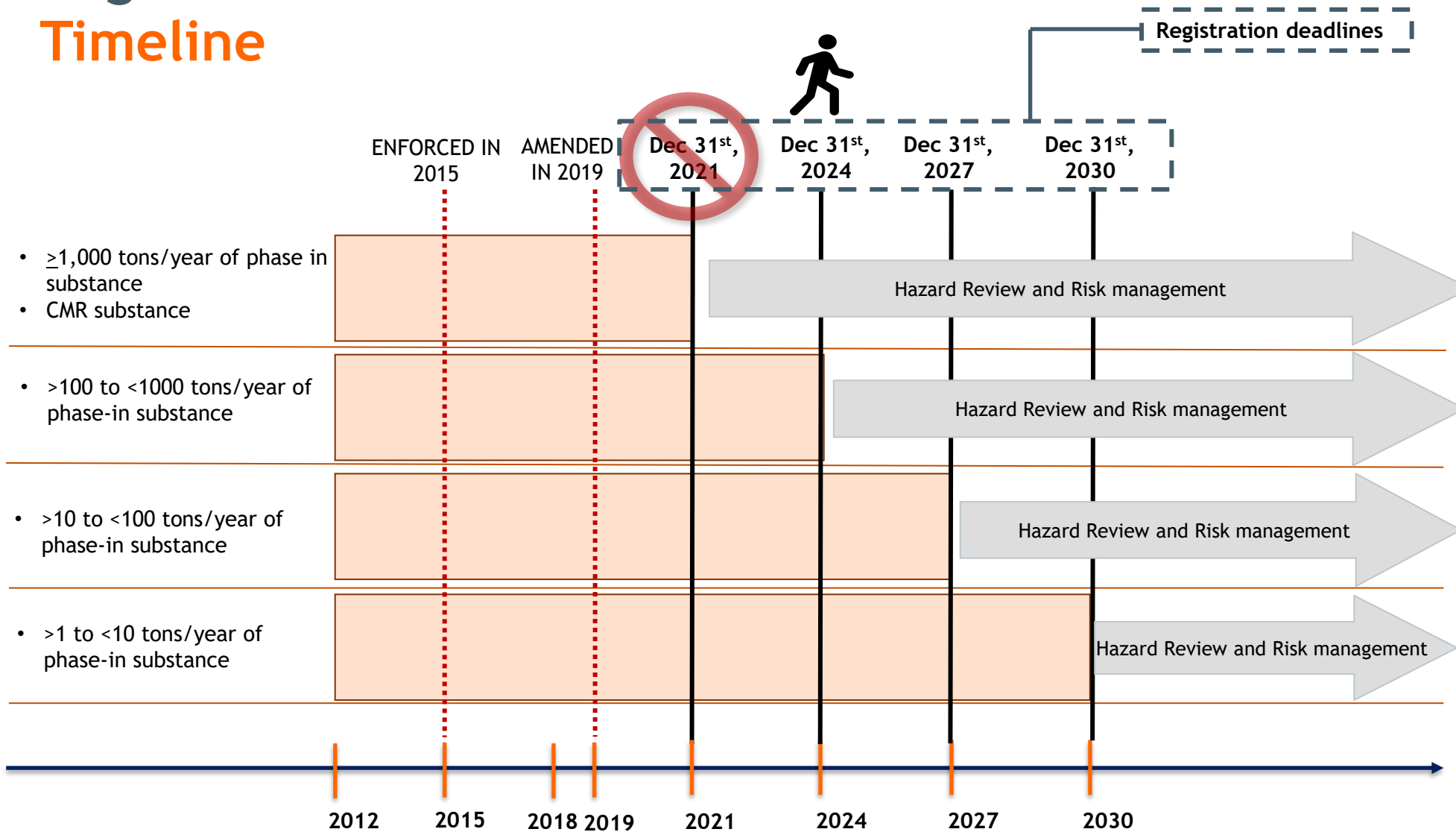
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· When there is no matching result, or the substance is only marked on the "OECD HPV chemicals", it is considered "Non-phase-in substance" (* "OECD HPV chemicals" means chemical substances that are globally manufactured or imported over 1,000 tons.)

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Registration Process & 2024 Deadline

Timeline



Existing: Registration deadline has been passed for >1000tpa, any substance subject to registration will **first have to be registered before being placed on the Korea market.**

This registration process is initiated with an **Inquiry**

New Substances registration:

All new substances

@ ≥ 100 kg

@ < 100 kg simply notification is enough

Registration Process & 2024 Deadline

(1) Only Representative (OR) Appointment

2. Log-in to the IT system
 - Chemical Information Process System
3. Prepare and submit the application # Required
 - #Document proving that OR is a citizen of Republic of Korea or a person domiciled in the Republic of Korea
 - #Document proving the appointment such as a copy of OR appointment

Step I

Appoint OR

1. Receive OR-related documents from overseas manufacturers/ producers
 - Information on chemicals
 - Copy of OR appointment contract

Submit OR application

Step II

Timeline: 2-3 weeks

Step III

Review & Inform Result (KECO)

4. Submission (Reject) → Review → OR Appointment concluded
5. Inform OR when concluded (Receipt of OR certificate)

■ 화학물질의 등록 및 평가 등에 관한 법률 시행규칙 [별지 제34호서식]

제 34-B-1905-11025 호

국외 제조(생산)자에 의한 선임 사실 신고증

1. 상호(명칭) : ██████████ Company/OR name
2. 사업자등록번호 : ██████████ Business registration number
3. 성명(대표자) : ██████████ Contact Person
4. 소재지(사업장) : ██████████ Address of Business
5. 신고내용 : [] 선임 [] 해임
6. 국외 제조(생산)자 또는 최종 수출자: Foreign Manufacturer
██████████
7. 제품명 등 :
2,2'-(Butylimino)bisethanol ; N-Butyldiethanolamine (CAS No. : 102-79-4)

「화학물질의 등록 및 평가 등에 관한 법률」 제38조제2항 및 같은 법 시행규칙 제49조제4항에 따라 화학물질 또는 제품의 국외 제조(생산)자 또는 수입자를 같음하여 업무를 수행할 수 있는 자를 신고하였음을 확인합니다.

2019년 05월 27일

한국환경공단의
이사장

OR Appointment Declaration

REACHLAW

Registration Process & 2024 Deadline

(1) OR can perform multiple acts for overseas manufacturers

- ① Chemical **registration, pre-notification** and report of change
- ② Applications for confirmation of **exemption** and change from registration
- ③ Registration of **changes** or reporting of changes
- ④ Report of intensive control substances contained in products
- ⑤ **Individual submission** of data for application for registration of existing chemicals
- ⑥ Provision of information on registered substance
- ⑦ **Confirmation** of whether the owner of **vertebrate test data** has consented to use the vertebrate test data
- ⑧ Provision of information dissemination
- ⑨ Provision of information dissemination on substances contained in products
- ⑩ Application for **data protection request (CBI)**

Registration Process & 2024 Deadline

Co-Registration-Joint Registration

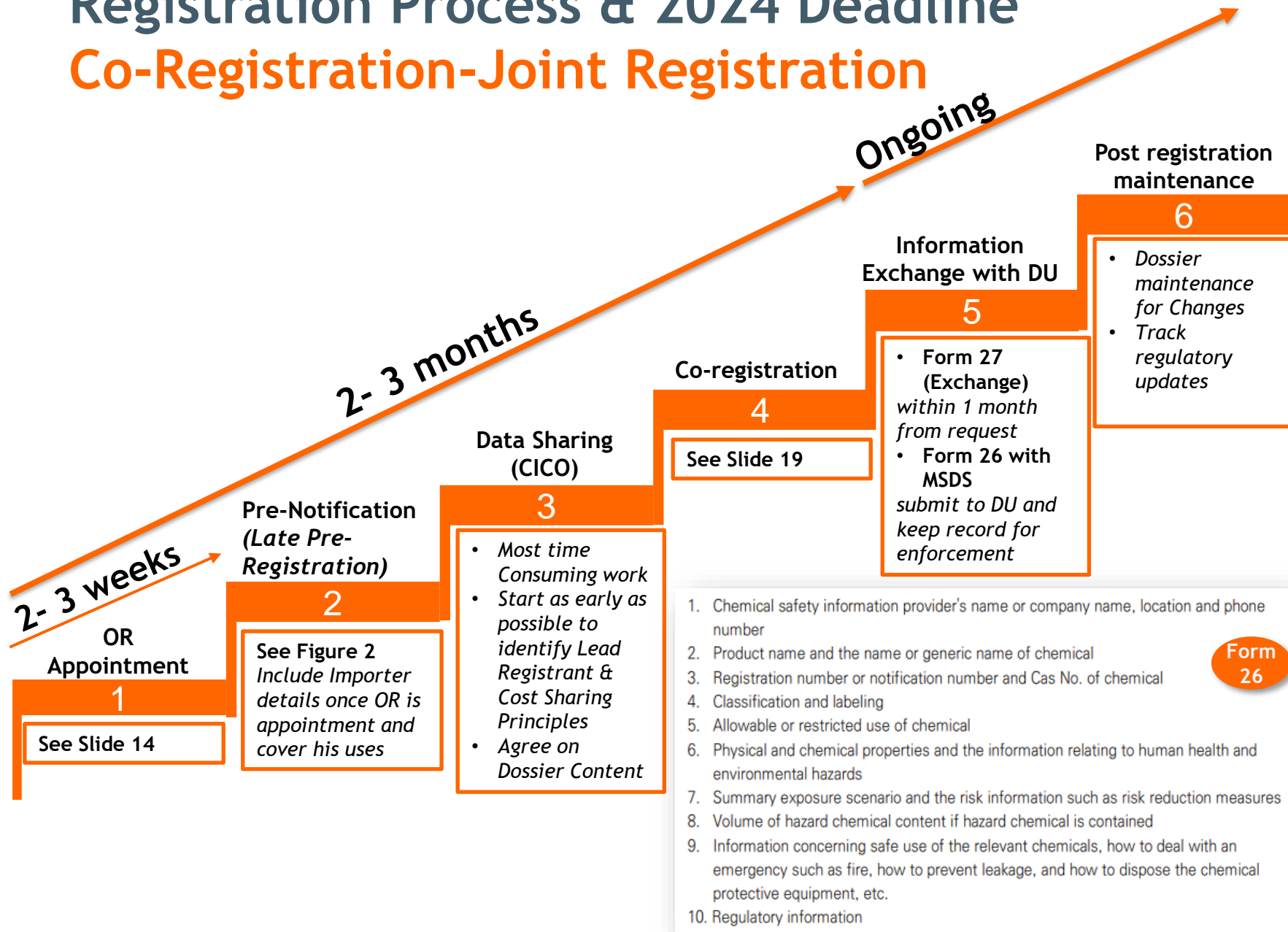


Figure 2 Pre-notification

- Name of chemicals
- Annual volume of manufactured or imported chemical
- Classification and labeling of chemicals
- Use of chemical substances
- Company name, location and contact information of a person who intend to register
- Company name, location and contact information of person who wants to import chemicals (when a person appointed by the overseas manufacturer or producer pre-notifies)
- Company name, location, and contact information of chemical contractors (when consignee pre-notifies)

- Form 27**
- Name or company name of the manufacturer or importer
 - Name or generic name and product name
 - The volume of chemicals
 - Available or limited use of chemical
 - Information concerning safe use of the relevant chemical such as how to handle the chemicals, how to deal with an emergency such as fire, how to prevent leakage, and how to dispose the personal protective equipment, etc.
 - Information on the physical and chemical properties and hazard
 - Regulatory information for the relevant chemical

***Late pre-registration is still possible
under certain conditions***

Registration Process & 2024 Deadline

Tips to comply with 31.12.2024 Deadline

Appoint OR, Notification & Registration Status

- Appoint your OR
- Notification with Importer details
- Check if lead registrant (LR) is appointed & if correct tonnage is registered by him (\geq your exports to Korea)

Joint Registration as Co-Registrant

- Check your substance is same as LR using Substance Identification Test
- Check C&L is same as registered substance
- Obtain use information from importer and confirm
- Check if LoA purchase includes CSR for your uses
- Agree on Letter of Access Fee (LoA) & Execute Data Sharing Agreement covering how future cost or refund is calculated

Post Registration

- Inform your importers of Registration Certificate
- Update your MSDS
- Submit Form No. 27 (eSDS) within one month from the date requested by the Korean importer

Stay upto date with the regulation

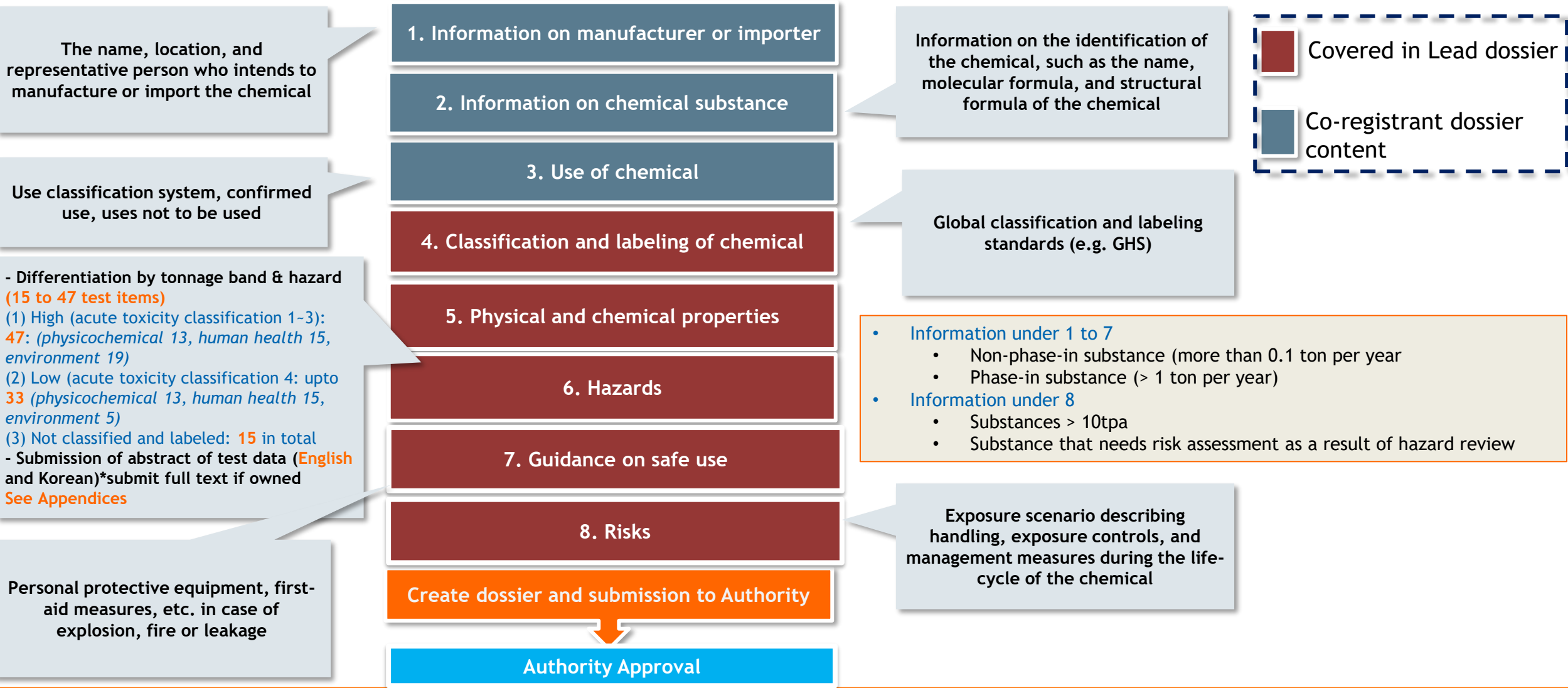
- Keep your dossier upto date for changes
- Follow <https://kreach.me.go.kr/>

Registration Process & 2024 Deadline Requirements

Requirement	Existing Chemicals (Phase in substances) >1 ton/year	New chemicals (non-Phase in substances) >0.1 ton/year	New chemicals (non-Phase in substances) <0.1 ton/year	Polymer	Intermediates	PEC Substance
Notification	Yes	NA	NA	Yes	Yes	NA
Inquiry	NA	Yes	Yes	NA	NA	NA
Registration	Yes	Yes	Yes	Yes	Yes	Yes
Exemption or Notification without addition procedures	NA	Yes	Yes	Low concern polymer	Non-isolated Intermediates	NA
Form 26 & MSDS (KOSHA)	Yes	Yes	Yes	Yes	Yes	Yes
Record keeping	Yes	Yes	Yes	Yes	Yes	Yes
Mandatory Substance Identification and Quantification Testing	Yes	Yes	Yes	Yes/ Polymer testing	Yes	Yes
Data requirements: See Appendices	Yes	Yes	Yes	Yes	Yes	Yes

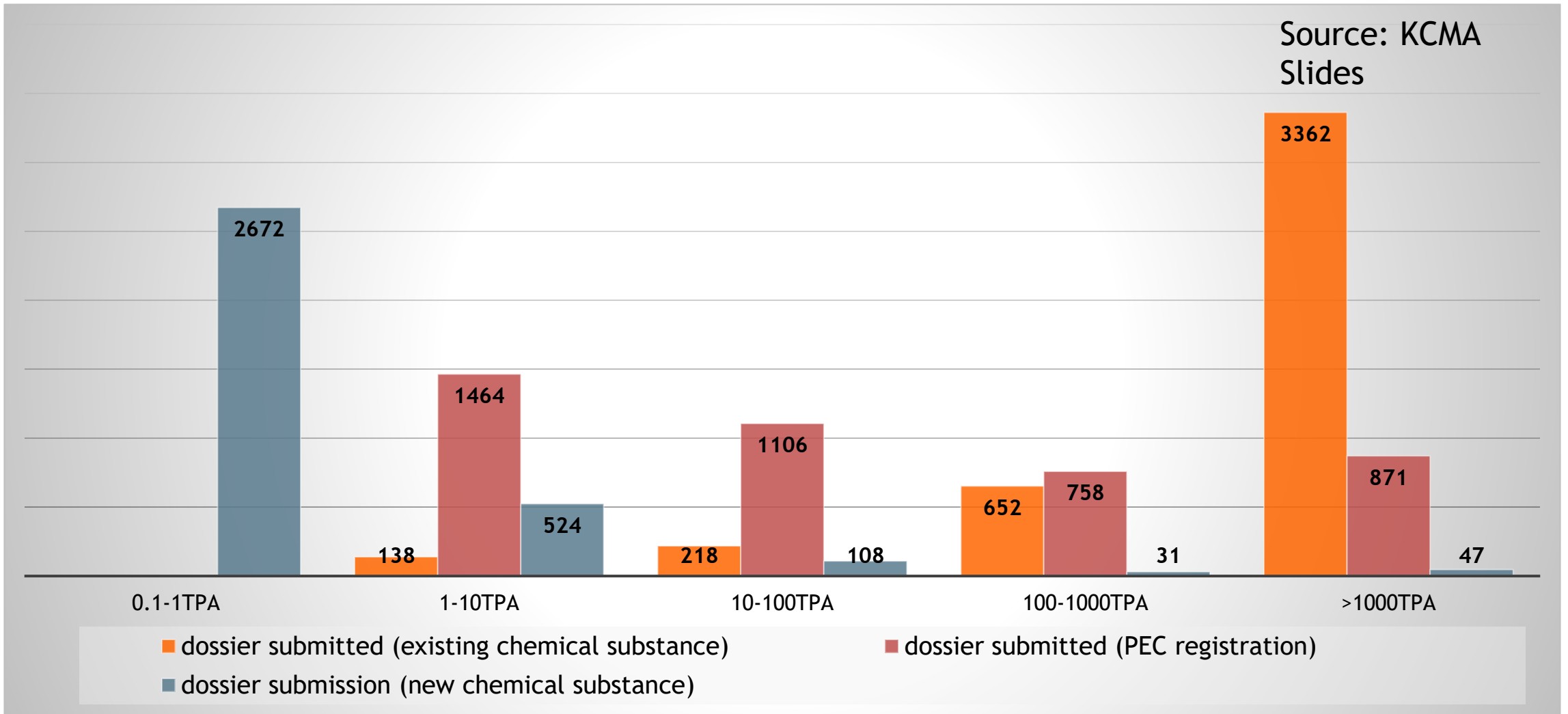
Registration Process & 2024 Deadline

(3) Registration Dossier Content



Registration Process & 2024 Deadline

Registration Statistics



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Cost & Penalties

Authority Fees

Items	Amount in Korean won	Amount in EUR
Registration and reporting of chemical substances pursuant to Article 10 of the Act		
1) Registration of chemical substances	200,000 won	140 EUR
2) Reporting of new chemical substances	100,000 won	70 EUR
Confirmation of exemption from registration, etc. of chemical substances in accordance with Article 11 (2) of the Act		
1) Confirmation of exemption from registration	50,000 won	35 EUR
2) Confirmation of exemption from reporting	30,000 won	22 EUR
Change registration or change report of chemical substances pursuant to Article 12 of the Act		
1) Change registration of chemical substances	50,000 won	35 EUR
2) Change report of chemical substances	30,000 won	22 EUR

Cost & Penalties

Cost of Registration

Fixed fee per substance

(22 - 140 EUR)

(1) Authority Fees

One-time fee

1. Data Cost
 1. No. of companies registering
 2. Type of submission (registration or exemption)
 3. Tonnage band
 4. Test Data & Chemical Safety Assessment/Report (for uses) to be generated or available
 5. Evaluation
2. Administrative Cost (Finance, Legal, Technical, Project Management, Administration)

(2) LoA/ Data Fees

Subject to the above parameters

One-time fee but of a Dynamic nature

1. Notification service
2. Type of work
 1. Co-Registration
 2. Lead Registration
 3. Exemptions
 4. CBI
 5. CSR/SDS
 6. Dossier updates
3. Annual Maintenance Service
 1. OR Obligations
 2. Communications
 3. Registration

(3) Consultant Fees

Subject to above parameters

Both one-time & Annual

Cost & Penalties

Penalties

Action for non-compliance on registration, etc.(Article 13 of the Act)

- No one shall manufacture, import, use or sell chemicals that have not been registered or notified or have not been classified as a confirmation of exemption from registration, etc.
- MoE can order the manufacturer and importer of the substance to take measures such as suspension of manufacturing, import, use or sales, recovery, and disposal

Penalty and administrative fines (Article 50 -54 of the Act)

- Imprisonment not more than 5 years or Fines not exceeding 100 million won (~70k EUR)
- Imprisonment not more than 3 years or Fines not exceeding 50 million won (~35k EUR)
- Imprisonment not more than 1 years or Fines not exceeding 30 million won (~21k EUR)
- Fines not exceeding 10 million won (~7000 EUR)

Penalty Surcharges (Article 17(2) of the Act)

- Penalty surcharges of less than 2.5 to 5% of the sales may be imposed
- (Calculation method) the amount of penalty surcharges per day × the period for which a person commits an offence

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K-REACH & EU REACH Comparison

Description	K-REACH	EU REACH
OR appointment	Required approval from the authority	No approval from the authority
Pre-registration/Notification	Yes	Yes, but obsolete now
Registration	New chemicals simplified registration required for $\geq 100\text{kg/year}$ new substances.	New & existing chemicals $> 1 \text{ ton/year}$
	All existing chemical $> 1 \text{ ton/year}$	
Registration of Polymers	Not exempted for registration	No, Registration of monomers instead of polymer <i>(REACH revision seek registration of certain type of polymers)</i>
Exemptions	Applicant must obtain exemption from authority prior to manufacturing or import	Authority do not invite exemption application - self declaration
Data Requirements	Higher volume, more data requirement Reduced data requirement (classification based)	Higher volume, more data requirement
SDS (Safety data sheet)	Submission to the authority	No submission required

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Conclusions

- Check if your substance is existing chemical and eligible for grace period
- Identify if LR is elected and registration is complete for 2024 deadline substance.
- Decide soon to register as Co-registrant or lead registrant as per your export business.
- Revision of Registration & notification (draft)
 - new chemical substance registration standard
 - (Before) manufacturer-import more than 100kg in a year
 - (After) manufacturer-import more than 1 ton in a year
 - Improve effectiveness of new chemical substances notification
 - Information requirement - source of data
 - Disclosure of data..
- Upcoming plans
 - Proceed with K-REACH rectification: supplementation & revisions
 - Discuss ARECs supplementary decree revision
 - Prepare practical guidance for implementation of the improved regulation

Thank You for Your Attention!

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Appendices

Data requirements : Physio chemical properties

Physio Chemical Properties	<1 t/a	1-10t/a	10-100t/a	100-1000t/a	1000& Above t/a
Physical status	_____	_____	_____	_____	_____
Water solubility	_____	_____	_____	_____	_____
Melting/ freezing point	_____	_____	_____	_____	_____
Boiling point	_____	_____	_____	_____	_____
Vapour pressure	_____	_____	_____	_____	_____
Octanol/water coefficient (GLP)	_____	_____	_____	_____	_____
Relative density	_____	_____	_____	_____	_____
Granulometry (particle size distribution)	_____	_____	_____	_____	_____
Flammability	_____	_____	_____	_____	_____
Explosive property	_____	_____	_____	_____	_____
Oxidising property	_____	_____	_____	_____	_____
Viscosity	_____	_____	_____	_____	_____
Dissociation constant	_____	_____	_____	_____	_____

Data requirements: Toxicity Test

Toxicity test (GLP)	<1 t/a	1-10t/a	10-100t/a	100-1000t/a	1000& Above t/a
Acute oral toxicity (If exposure route is inhalation then, inhalation toxicity)	_____	_____	_____	_____	_____
Ames test	_____	_____	_____	_____	_____
Skin corrosion/ irritation		_____	_____	_____	_____
Skin sensitisation		_____	_____	_____	_____
Acute dermal toxicity or acute inhalation toxicity			_____	_____	_____
Eye irritation/ corrosion			_____	_____	_____
In vivo mammalian chromosomal aberration test			_____	_____	_____
In vivo mammalian gene mutation test (micronucleous test)			_____	_____	_____
Repeated dose toxicity (28d)			_____	_____	_____
Screening for reproductive/ developmental toxicity			_____	_____	_____
Additional mutation test (Germ cell mutagenicity etc)				_____	_____
Repeated dose toxicity (90d)					_____
Parental developmental toxicity study					_____
Two generation reproductive toxicity					_____
carcinogenicity study					_____

Data requirements : Environmental Toxicity Test

Environmental toxicity test (GLP)	<1 t/a	1-10t/a	10-100t/a	100-1000t/a	1000& Above t/a
Acute fish toxicity	_____	_____	_____	_____	_____
Ready biodegradability	_____	_____	_____	_____	_____
Acute daphnid toxicity		_____	_____	_____	_____
Acute algae toxicity			_____	_____	_____
Hydrolysis as a function of pH			_____	_____	_____
inherent biodegradability				_____	_____
Identification of degradation products				_____	_____
chronic daphnid toxicity				_____	_____
chronic fish toxicity				_____	_____
short-term toxicity to plants				_____	_____
short-term toxicity to invertebrates (earthworm)				_____	_____
activated sludge respiration inhibition test				_____	_____
adsorption/ desorption screening test				_____	_____
fate and behaviour in the environment					_____
long-term toxicity testing on plants					_____
long-term toxicity testing on invertebrates (earthworm)					_____
additional adsorption/ desorption screening					_____
Long-term toxicity to sediment organisms					_____
bioconcentration					_____