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REACH24H



1. Overview of Chemical regulations in China

3. Hazardous Chemical Management

2. The Measures for the Environmental Administration Registration of New Chemical Substances



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Overview of Chemical regulations in China



Regulations on the Control over Safety of Hazardous Chemicals (Decree 591)

Other Chemical Regulations

Business License

SAWS Order 41: Haz Chemicals Safe Production Permit MANUFACTURE

SAWS Order 55: Haz Chemicals Operation Permit OPERATION / DISTRIBUTION

SAWS Order 57: Haz Chemicals safe Use Permit USE

MOT Decree 36 & 2 TRANSPORTATION (by water and road) China GHS

Inventory of Hazardous Chemicals (2915)

<u>Hazardous Classification</u> GB 30000.2 ~ 29

> Safety Data Sheets GB/T 16483 GB/T 17519

Labelling GB 15258 GB/T 22234-2008 Registrations

MEE Order 12: The Measures for the Environmental Administration Registration of New Chemical Substances MANUFACTURE / IMPORT / RESEARCH / PROCESS FOR USE

SAWS Order 53: Registration of Hazardous Chemicals MANUFACTURE / IMPORT

MPS Decree 77 (Highly Toxic Chemicals) PURCHASE / TRANSPORT Regulations on the Administration of Precursor Chemicals (Decree 445)

SPSA Decree 5
PRODUCTION / OPERATION

MPS Decree 87
PURCHASE / SALES /
TRANSPORT

MOC Decrees 7 and 8 IMPORT / EXPORT

Regulations on Monitored and Controlled Chemicals (Decree 190)

MCI Decree 12



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MEE Order 12 - Background

Oct 15, 2003

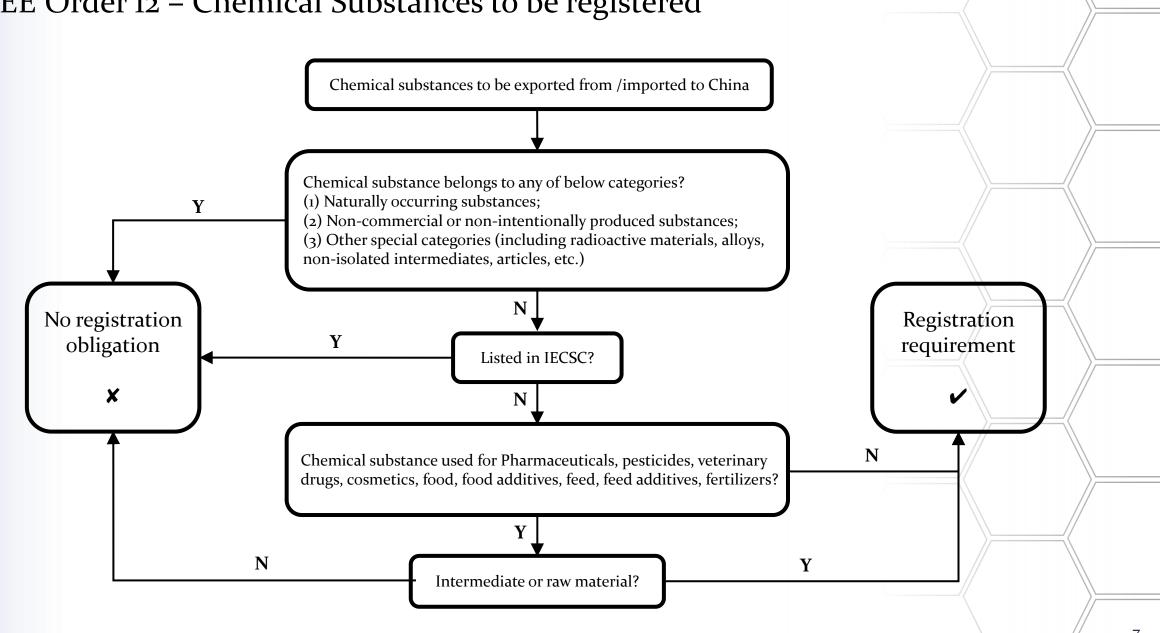
Measures for the Environmental Management of New Chemical Substances (SEPA Order 17) Jan 1, 2020

Measures for the Environmental Management Registration of New Chemical Substances (MEE Order 12)

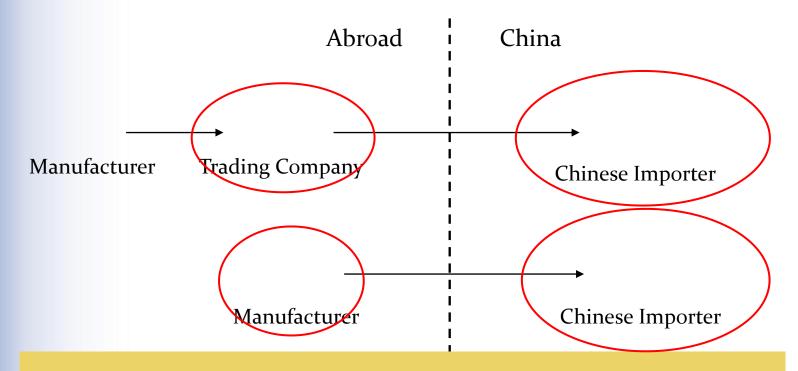
Oct 15, 2010

Measures for the Environmental Management of New Chemical Substances (MEP Order 7)

MEE Order 12 – Chemical Substances to be registered



MEE Order 12 – Registrants



Overseas Registrant:

- Manufacturer or trading company who is the direct exporter
- Appoint a Chinese company as the representative

Domestic Registrant:

• Direct importer



Domestic Registrant:

• Chinese Manufacturer

MEE Order 12 – Registration Type

Complexity



- Lower than 1 t/y
- Polymers <2% new or PLC



1 t/y to 10 t/y



Over 10 t/y

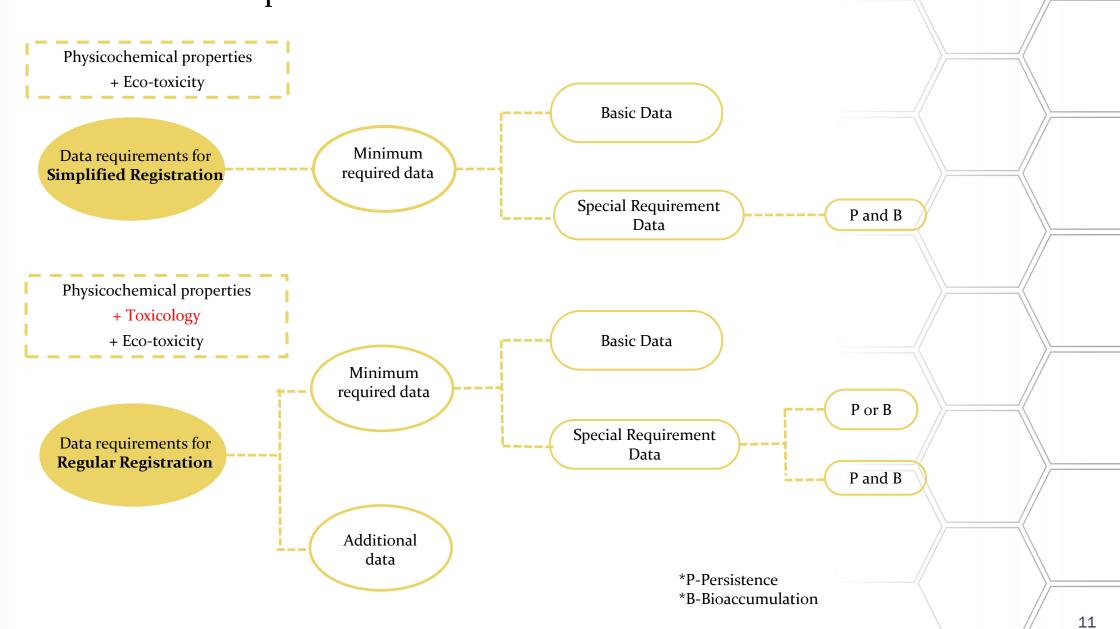
Annual volume of the registered substance to China



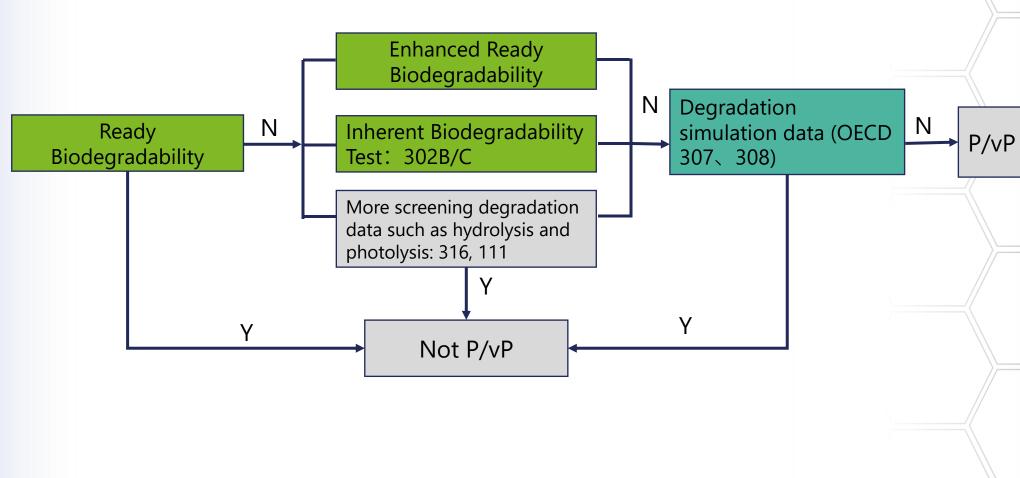
MEE Order 12 – Documents Required and Review Period

Registration Type	Documents required	Review Period
	Application form (with attachments), business certification (domestic	
Record Notification	company), PoA (overseas registrant), other existing information regarding	Receipt immediately received
	to risk and safety (GPC report and other documents to prove the polymer	after submission
	meets the criteria)	
Simplified Registration	Same required information for Record Notification, test reports or study reports for required data, the basis and conclusions on the persistence, bioaccumulation and toxicity, CBI information, Letter of commitment about	Registration certificate received after review and approval by the authorities (3 months on average)
Regular Registration	environmental risk control, Qualification of testing institutes Same required information for Record Notification, test reports or study reports for required data, the basis and conclusions on the persistence, bioaccumulation and toxicity, CBI information, Letter of commitment about environmental risk control, Qualification of testing institutes, Environmental risk assessment report, Socio-economic benefit analysis report (for highly	Registration certificate received after review and approval by the authorities (6 months on average)
	hazardous new chemicals)	

MEE Order 12 – Data Requirement

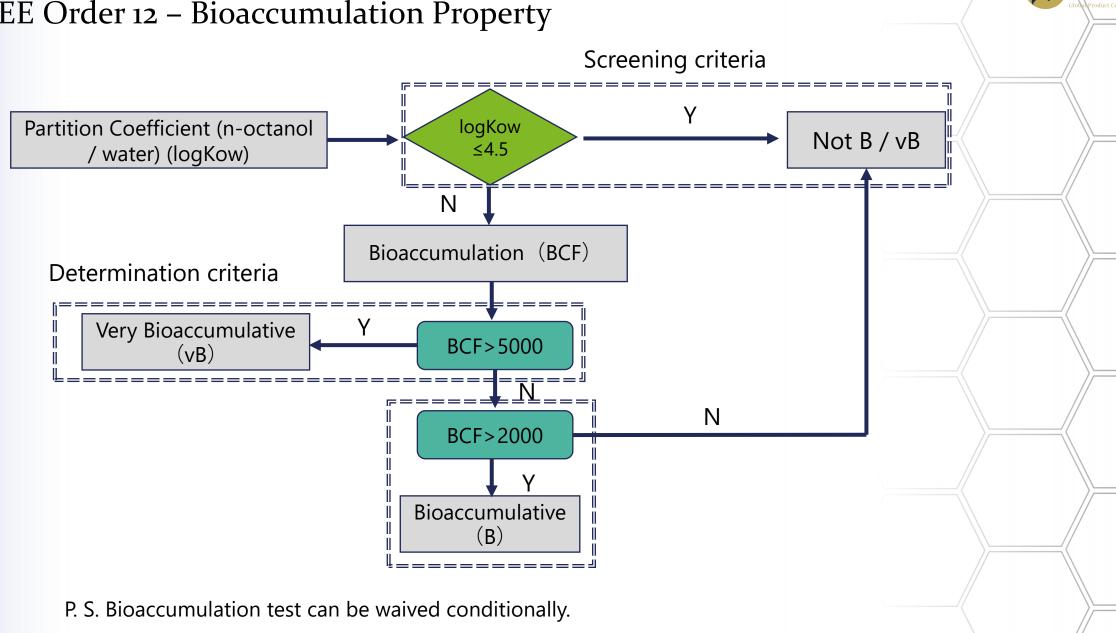


MEE Order 12 – Persistence Property



P.S. The criteria is not applicable for inorganic substances.

MEE Order 12 – Bioaccumulation Property



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MEE Order 12 –Physicochemical Tests

	Simp	olified Registr	ation	R	egular Registrat	tion
Data item	Gas	Liquid	Solid	Gas	Liquid	Solid
Spectrum	V	V	V	V	V	1
Melting/freezing point		V	V		V	V
Boiling point		V			V	
Density		V	√		V	√ //
Vapor pressure		V			V	
Water Solubility	V	V	V	V	V	√ \
N-octanol/water partition coefficient		V	V		V	V
рН		V			V	
Particle size						√
Surface tension					V	
Critical point	V			V		
Dissociation constant					V	√
Henry's constant				V	V	V //
Others						

MEE Order 12 – Toxicological Tests (only for Regular

Registration)

Data Item	Basic data	P or B	P and B
Acute toxicity	V	V	V
Skin irritation	V	√	V
Eye irritation	V	V	V
S k i n sensitization	V	√	V
Mutagenicity	V	V	\checkmark
Repeated dose toxicity	V	√	V
Reproductive/de velopmental toxicity	$\sqrt{}$	√	V
Toxicokinetics			V
Chronic toxicity			V
Carcinogenicity		√	V
Others			V





MEE Order 12 – Eco-toxicological Tests

D (')	Simplified	Registration	Regi	ular Registra	ation
Data item	Basic data	P and B	Basic data	P or B	P and B
Inhibitory toxicity on alga growth	V	V	V	V	V
Acute toxicity on daphnia	V		V	V	V
Acute toxicity on fish or short-term toxicity testing on fish embryo-yolk sac at absorption stage	√	V	V	√	V
Respiratory inhibitory toxicity on activated sludge			V	V	V
Adsorption/desorption			V	V	V
Degradation	V	V	V	V	V
Acute toxicity testing on earthworm			V	V	V
Reproduction testing on large daphnia		√	V		V
Bioaccumulation	V	V	V		V
Chronic toxicity testing on fish		√	V		V
Seed germination and root elongation test or terrestrial plant growth test				√	V
Enchytraeid reproduction testing or earthworm reproduction testing				V	V
Chronic toxicity on benthos					
Others					





Testing type	Qualification of the Overseas laboratory	Testing Methods
Physicochemical tests	Meet the management requirements of the competent authority in the country where they are located or the internationally recognized OECD GLP requirements	
Toxicological tests	OECD GLP	OECD Guidelines or other internationally recognized testing
Eco-toxicological tests	OECD GLP	methods

MEE Order 12 – Other registrations

Special form of registration	Definition	Requirements
Serial registration	Registration of multiple new chemical substances of similar molecular structure, identical or similar uses, and similar testing data, which are submitted as a series by the same applicant	 1. The quantity registered shall be the sum of quantities of each substance in a series 2. Number of new chemicals in each series ≤ 6
Joint registration	Registration of the same new chemical substance by two or more applicants at the same time	 The quantity registered shall be the sum of quantities submitted by each applicant The withdrawal of a joint registration certificate requires the submission of withdrawal application by all joint applicants





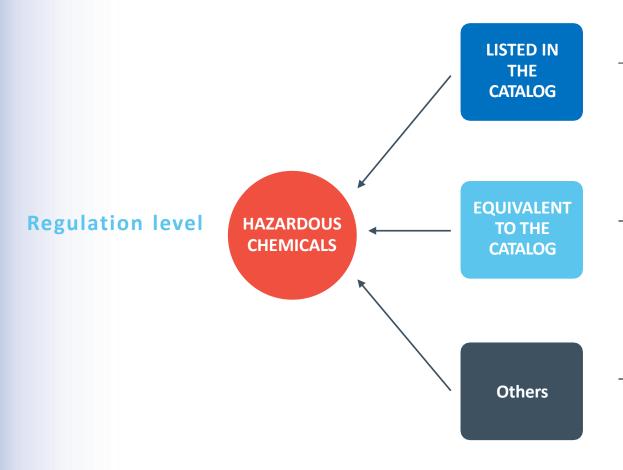
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Hazardous Chemical Management – Hazardous Chemicals Determination



Catalog of Hazardous Chemicals 2015

- ✓ Entries 1-2827
- ✓ Entry 2828: 88 sub-items
- ✓ Conforming to the 70% principle, constituents listed in the Catalog ≥70%

Conforming to the Determination Principle

✓ Conforming to the determination principle: 81 items of GHS classification

Not confirming to catalog or determination principle

- ✓ Chemicals of low hazard according to GHS classification
- ✓ Non-hazardous chemicals

Hazardous Chemical Management - China GHS Classification



	1. Explosive	Unst. Expl.	Div. 1.1	Div. 1.2	Div. 1.3	Div. 1.4	Div. 1.5	Div. 1.6
	2. Flammable gases	Cat. 1	Cat. 2	Unst. Gas A	Unst. Gas B			
	3. Aerosols	Cat. 1	Cat. 2	Cat. 3				
	4. Oxidizing gases	Cat. 1						
	5.Gases under pressure	compressed gas	liquefied gas	Refrigerated liquefied gas	Dissolved gas			
	6.Flammable liquid	Cat. 1	Cat. 2	Cat. 3	Cat. 4			
	7.Flammable solid	Cat. 1	Cat. 2					
	8.Self-reactive substance/mixture	Туре А	Туре В	Type C	Type D	Type E	Type F	Type G
Physical	9.Pyrophoric liquid	Cat. 1						
Hazards	10.Pyrophoric solid	Cat. 1						
	11.Self-heating substance/mixture	Cat. 1	Cat. 2					
	12.Substance/mixture which in							
	contact with water, emit	Cat. 1	Cat. 2	Cat. 3				
	flammable gases							
	13.Oxidizing liquid	Cat. 1	Cat. 2	Cat. 3				
	14.Oxidizing solid	Cat. 1	Cat. 2	Cat. 3				
	15.Organic peroxides	Туре А	Type B	Type C	Type D	Type E	Type F	Type G
	16.Corrosive to metal	Cat. 1						
	1.Acute toxic -	Cat. 1	Cat. 2	Cat. 3	Cat. 4	Cat. 5		
	oral/inhalation/dermal	Cat. 1	Cat. 2	Cat. 3	Cat. 4	Cat. 3		
	2.Skin corrosion/irritation	Cat. 1	Cat. 1A	Cat. 1B	Cat. 1C	Cat. 2	Cat. 3	
	3. Serious eye damage/irritation	Cat. 1	Cat. 2	Cat. 2A	Cat. 2B			
	4.Respiratory/Skin Sensitization	Cat. 1	Cat. 1A	Cat. 1B				
Health	5.Germ cell mutagenicity	Cat. 1A	Cat. 1B	Cat. 2				
Hazards	6. Carciogenicity	Cat. 1A	Cat. 1B	Cat. 2				
	7.Reproductive toxicity	Cat. 1A	Cat. 1B	Cat. 2	Lactation			
	8.STOT - single exposure	Cat. 1	Cat. 2	Cat. 3				
	9.STOT - repeated exposure	Cat. 1	Cat. 2					
	10.Aspiration hazard	Cat. 1	Cat. 2					
	1.1Hazardous to the aquatic	Cot 1	Cot 2	Cot 2				
F	environment - Acute	Cat. 1	Cat. 2	Cat. 3				
Environmental	1.2Hazardous to the aquatic	C-+ 1	Cat 3	Cat 2	Cat. 4			
Hazards	environment - Chronic	Cat. 1	Cat. 2	Cat. 3	Cat. 4			

14 GHS classifications not adopted

- Explosive Cat. 1.5
- Explosive Cat. 1.6
- Aerosols Cat. 2
- Aerosols Cat. 3
- Flammable liquid Cat. 4
- Self-reactive Type F
- Self-reactive Type G
- Organic peroxides Type G
- Desensitized explosives
- Acute Toxic Cat. 4
- Acute Toxic Cat. 5
- Skin Corr./Irrit. Cat. 3
- Aspiration hazard Cat. 2
- Aquatic hazard Acute Cat. 3
- Aquatic hazard Chronic Cat. 4

Hazardous Chemical Management - Supervision Measure



	Over 70% listed in the catalog	At least one of the 81 GHS classification	Others	
One book one label (SDS & Label)	Required	Required	Required	
Hazardous chemical registration	Required	Required	Not Required	
	Safety Data Sheets	<u>Labelling</u>		

GB 15258

GB/T 22234-2008

GB/T 16483

GB/T 17519



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Preparation before entering to China market

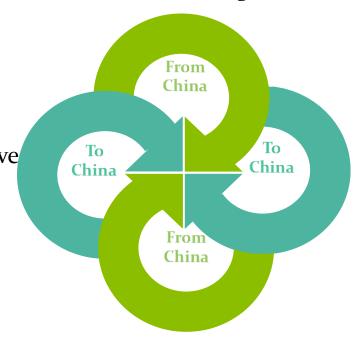


Domestic Manufacturer

- Obliged to do registration as the applicant
- Deliver registration information to downstream customer
- SDS, Label, hazardous chemical registration

Overseas Supplier

- Can do registration as the applicant
- Domestic company as the representative
- Deliver registration information to downstream customer
- SDS, Label, hazardous chemical registration (China standards)



Domestic Importer

- Can do registration as the applicant
- Deliver registration information to downstream customer

Overseas Buyer

- Reduce risks of non-compliance to regulations
- Ask for registration information from the supplier



Registration Type		Timeline	Certificate
Pagard Natification	General Type 10wks		Record Notification Receipt
Record Notification	PLC or <2% polymer	15wks	(no official seal)
Simplified Registration		8 to 12 months	Registration Certificate with official seal
Regular Registration		Over 12 months	Registration Certificate with official seal

Thank You.

Contact us for global regulatory services





Global Product Compliance (GPC)



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