



An overview of chemical management in Chile

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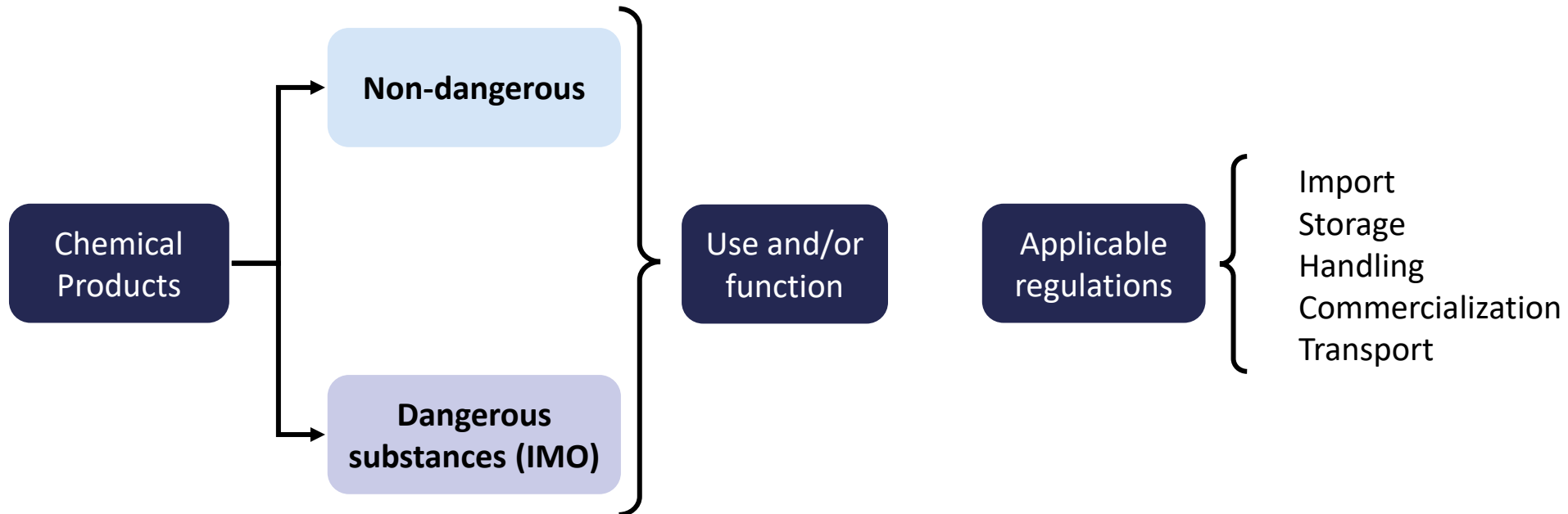


Introduction

Chemical legislation context

Context

- Currently, Chile has a complex legal framework covering the manufacture, transport, storage, use and commercialization of chemical products.



Hazardous chemical products

- Hazardous chemical products fulfil the conditions in Chilean norm NCh382 (Classification)
 - Classifies products into 9 classes
 - Each class is related to a pictogram in norm NCh2190 (Security badges)

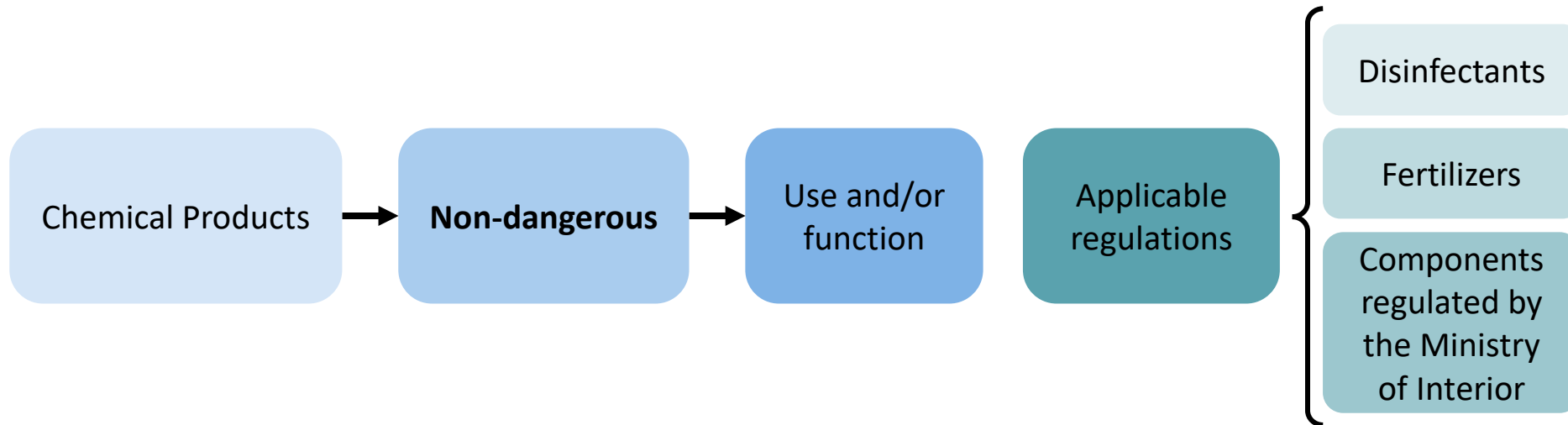


Non-hazardous chemical products

- Non-hazardous chemical products do not fulfil the criteria of Chilean norm NCh382 (Classification)
- This doesn't mean that the product is harmless if there is an undesired exposure
- Moreover, other regulations might apply and treat the product as hazardous (for instance DS/57 Notification, labelling and risk evaluation)

Non-hazardous chemical products

- Non-hazardous chemical products are not subjected to general regulations.
- However, some products and uses might be covered by specific regulations.



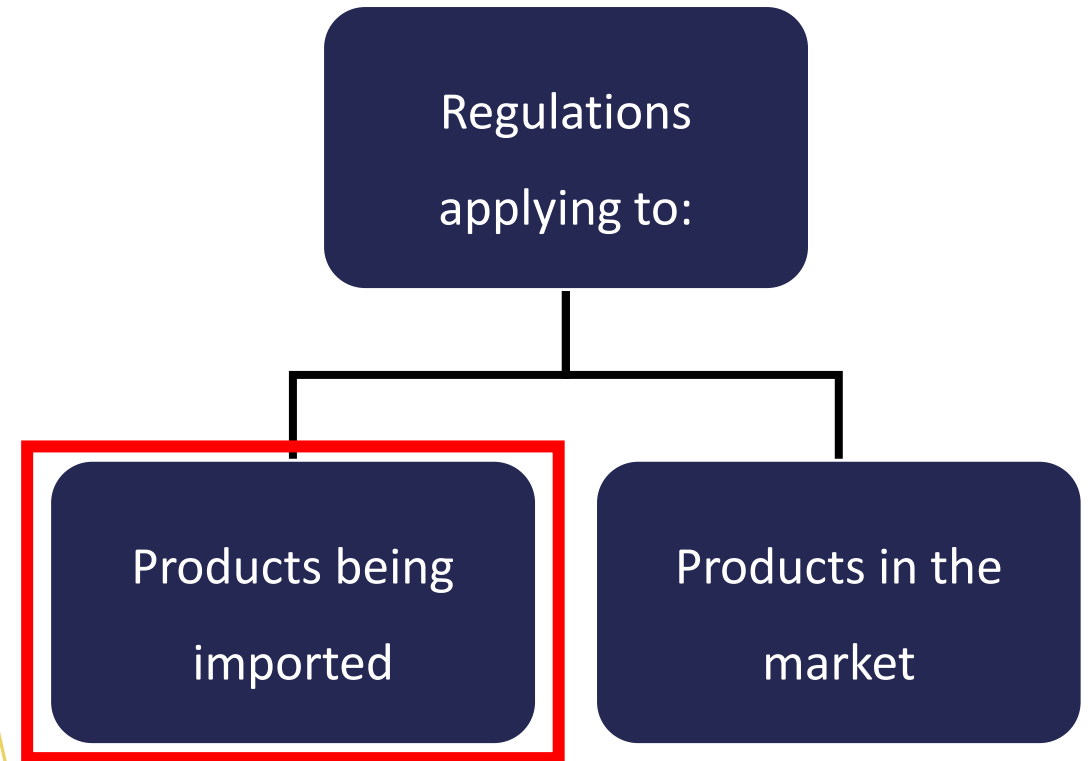
Hazardous chemicals

Applicable legislation

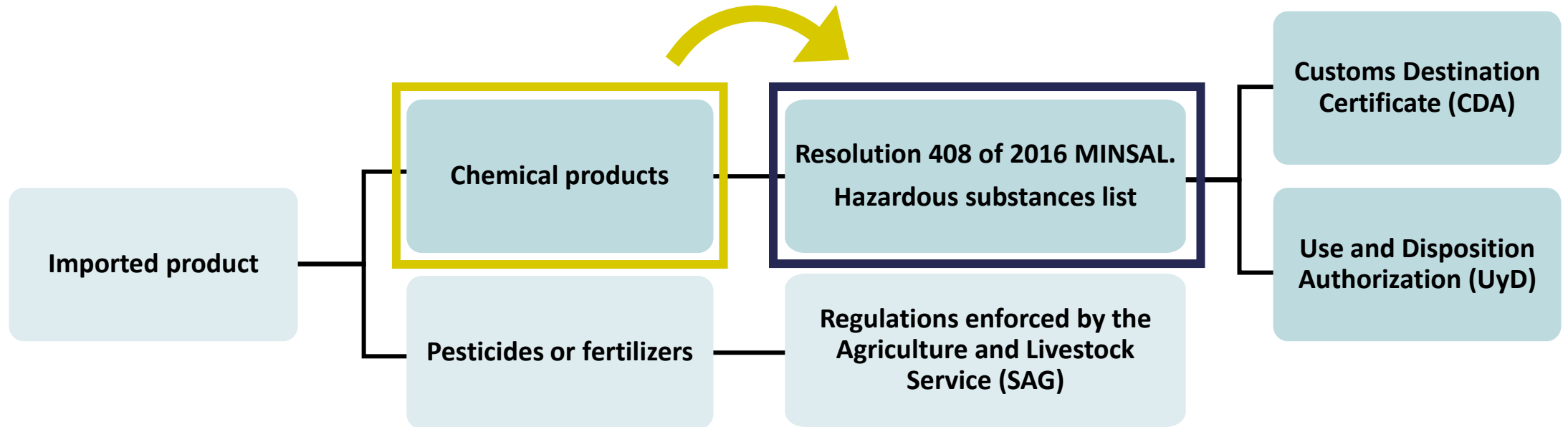


Regulations applying to chemicals

- Regulations applying to chemicals can be divided according to the moment in the importation process:
 - Products being imported (at the border)
 - Products in the market



Applicable regulations: products being imported (1)



Applicable regulations: products being imported (2)

- Resolution 408/2016 (Hazardous substances list) establishes a list of hazardous substances. It classifies substances into three groups.

Physically hazardous
substances and mixtures

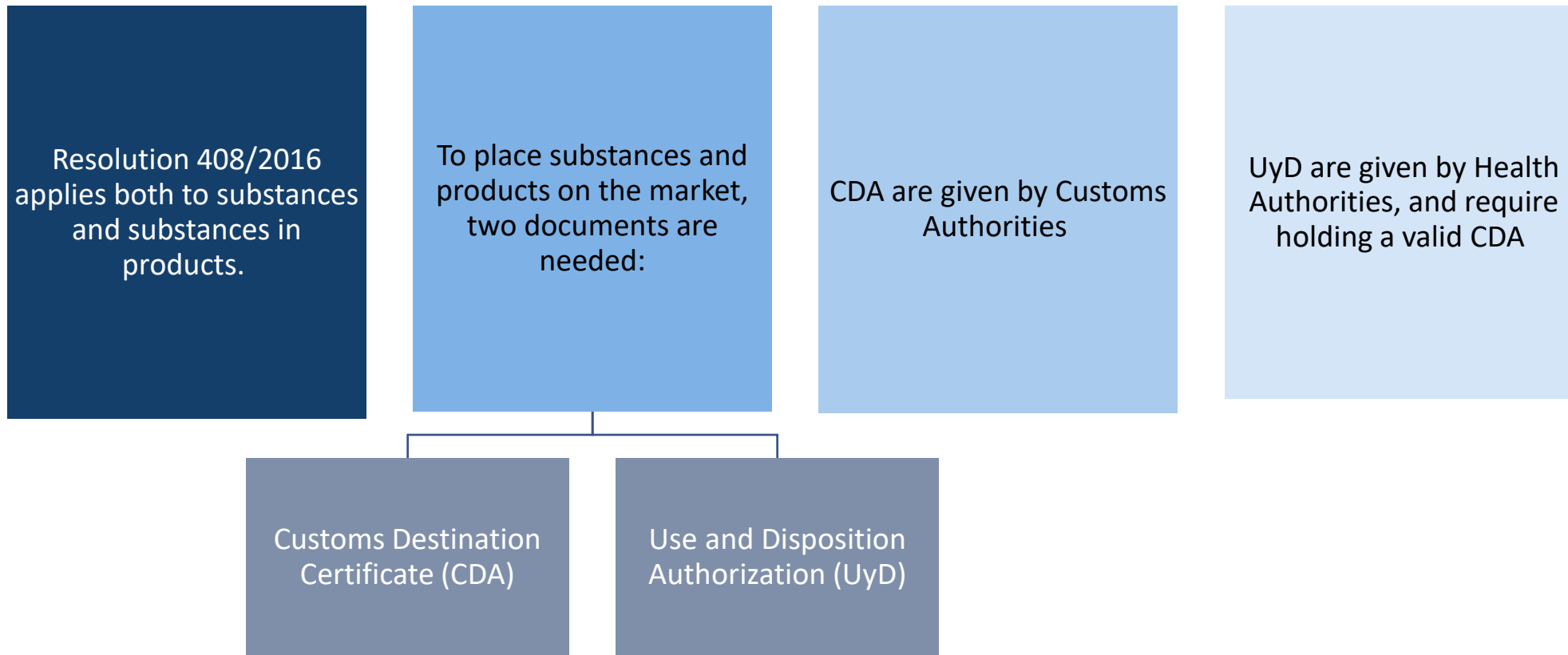
Substances and mixtures
**hazardous to human
health**
(e.g. Carcinogenic,
Mutagenic and
Reprotoxicor)

Substances that are
mainly used as **active
ingredients for
pesticides**

Substances and mixtures
for **domestic use
pesticides**

Substances or mixtures
used as **anti-microbial
products**

Resolution 408 of 2016 (1)



Resolution 408 of 2016 (2)

- When a substance is considered hazardous under Resolution 408, health authorities will ask for the following information:

Substance listed in
Resolution 408

Customs Destination
Certificate (CDA)

Use and Disposition
Authorisation (UyD)

Resolution 408 of 2016: Customs Destination Certificate (CDA) (1)

- The following information must be provided to obtain a CDA:
 - Copy of the invoice, provided by the supplier
 - Copy of the storage location's Health Authorization
 - SDS following Chilean norm NCh2245 (1993) (in Spanish)

Substance listed in
Resolution 408

Customs Destination
Certificate (CDA)

Use and Disposition
Authorisation (UyD)

Resolution 408 of 2016: Customs Destination Certificate (CDA) (2)

- The obtention of a CDA does not authorise importers to do any of the following:
 - Moving a substance
 - Using or consuming a substance
 - Exchanging, selling, or giving away a substance

Substance listed in
Resolution 408

Customs Destination
Certificate (CDA)

Use and Disposition
Authorisation (UyD)

Resolution 408 of 2016: Customs Destination Certificate (CDA) (3)

- Once the CDA has been obtained, the importer assumes the following responsibilities:



Transport of the substances to the authorized storage in accordance with the CDA's conditions



Keeping the substances in **storage** until the UyD authorisation has been obtained



Applying for a UyD **authorisation**

Resolution 408 of 2016: Use and Disposition Authorisation (UyD) (1)

- The UyD is the authorisation to use or sell the product
- It is granted by the Regional Health Authorities of the region where the product is stored

Substance listed in
Resolution 408

Customs Destination
Certificate (CDA)

Use and Disposition
Authorisation (UyD)

Resolution 408 of 2016: Use and Disposition Authorisation (UyD) (2)

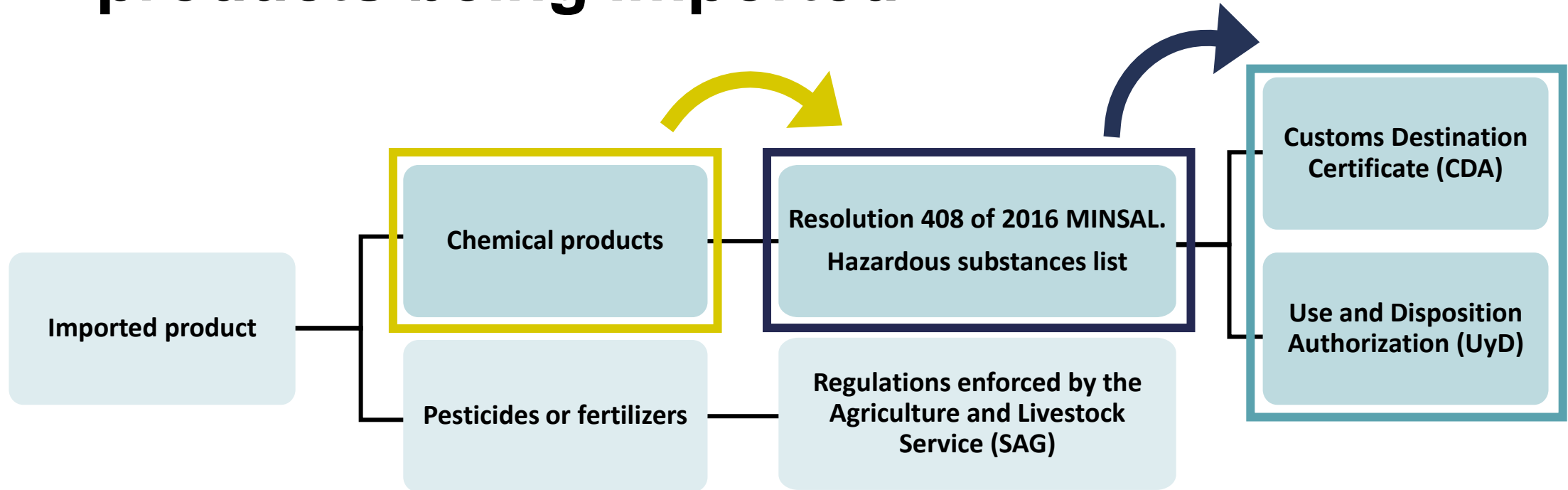
- An application for a UyD includes the following information
 - CDA
 - Copy of the invoice, provided by the supplier
 - Copy of the storage location's Health Authorization
 - Safety Data Sheets (SDS) following Chilean norm NCh2245 (1993) Chilean Safety Data Sheets (in Spanish)

Substance listed in
Resolution 408

Customs Destination
Certificate (CDA)

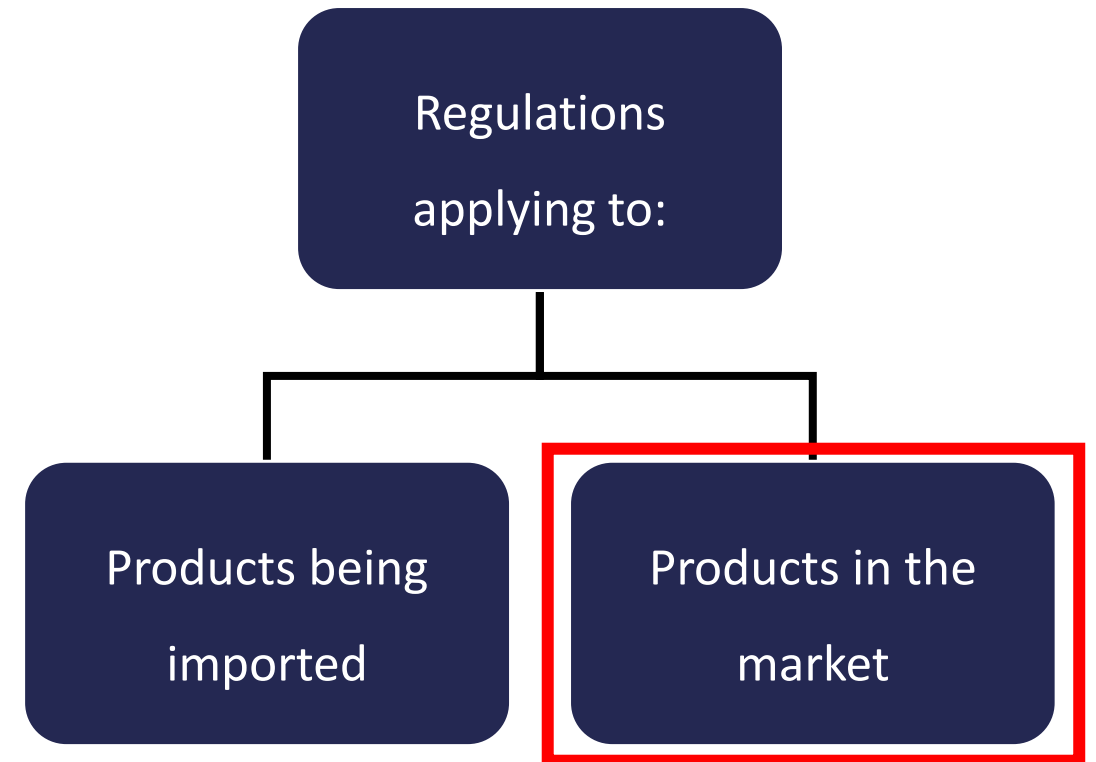
Use and Disposition
Authorisation (UyD)

Applicable regulations: products being imported



Regulations applying to chemicals

- Regulations applying to chemicals can be divided according to the moment in the importation process:
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 - Products in the market



Applicable regulations: products in the market



- **Classification** (NCh382)
- **Security badges** (NCh2190)
- **Classification labelling and notification** (DSN^o57:2019)

- **Safety Data Sheets** (NCh2245:2021)
- **Labelling and Safety Data Sheets** (DSN^o57:2019)

- **Hazardous substances transportation** (DSN^o298:1994)

- **Hazardous substances storage** (DSN^o43:2015)
- **Control measures for precursors and essential chemicals** (DSN^o1358:2006)
- **Substance storage requirements** (DSN^o40:2021)

- **Classification, labelling and Safety Data Sheets** (DSN^o57:2019)

- **Hazardous residues** (DSN^o148:2003)

Supreme Decree 57

**Classification, labelling,
notification and risk assessment of
hazardous substances and
mixtures**

Overview



DS/57 Overview (1)

**Supreme Decree 57,
of 2019 (DS/57)**

- Introduces the regulation of multiple hazards for a given substance

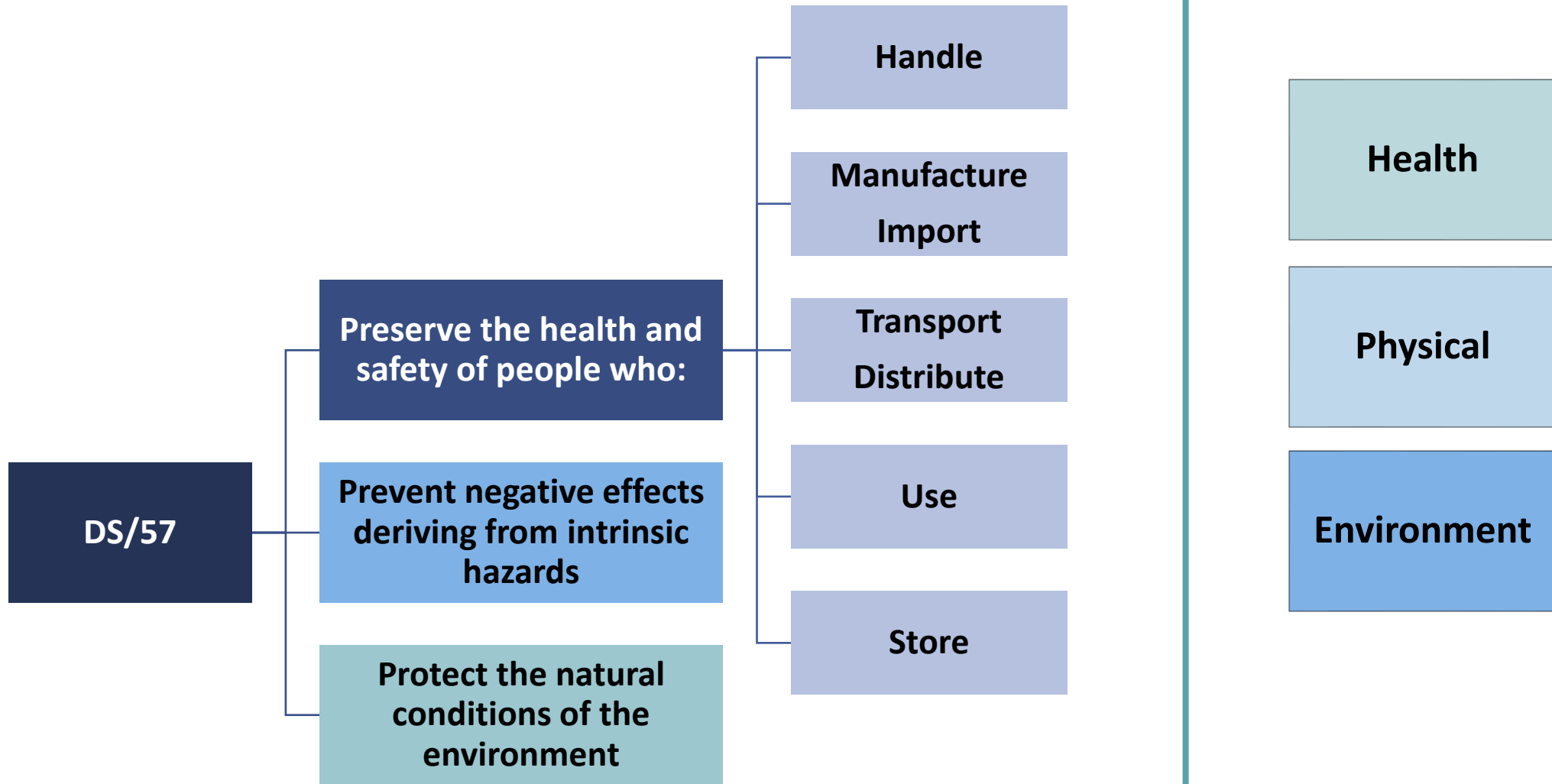
UN GHS

- Universal framework for hazard classification, and communication (SDS and labelling)

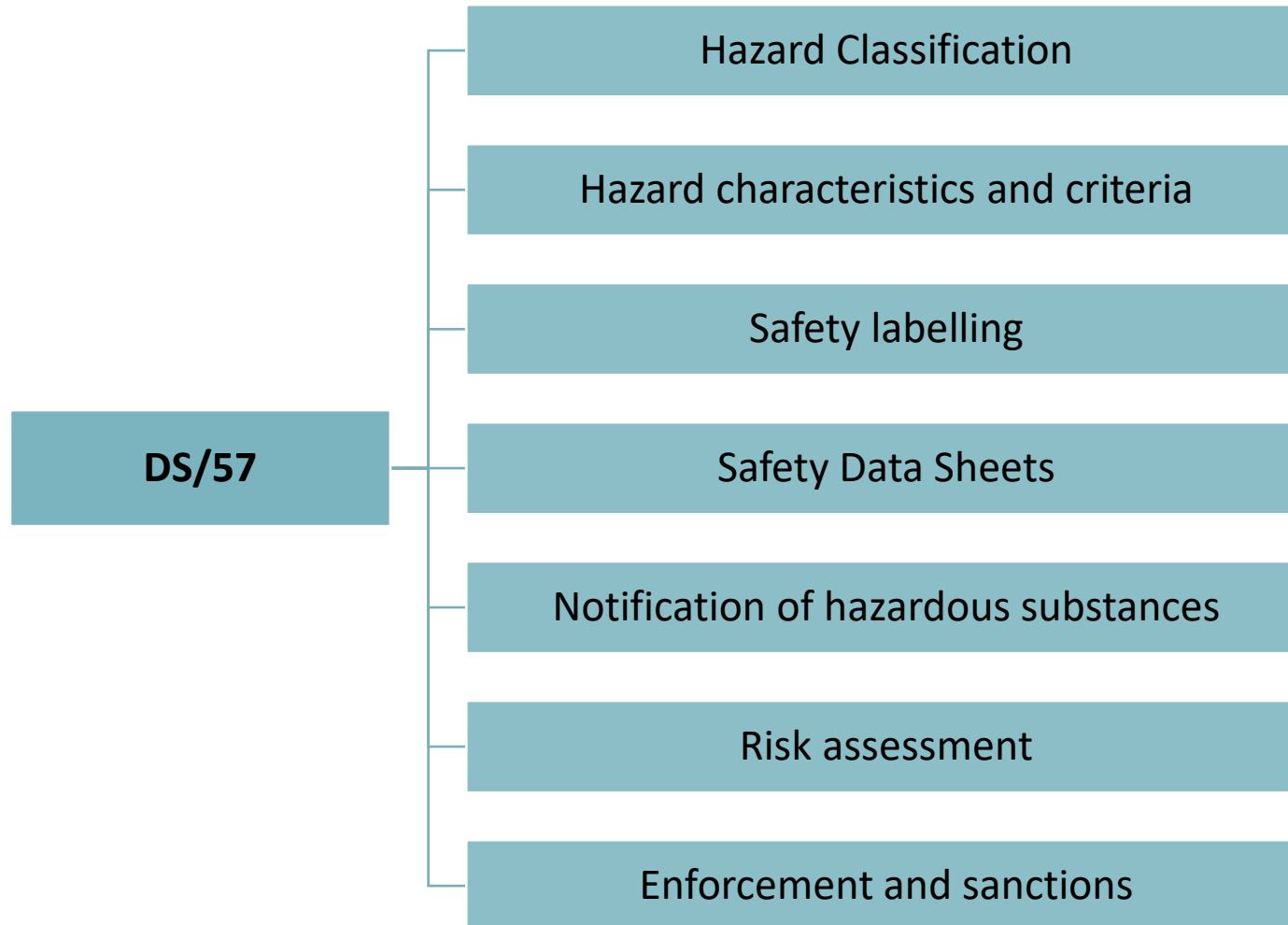
Chilean norm NCh 382
On the ground transport
of dangerous goods

- Comprises hazards most relevant to ground transportation

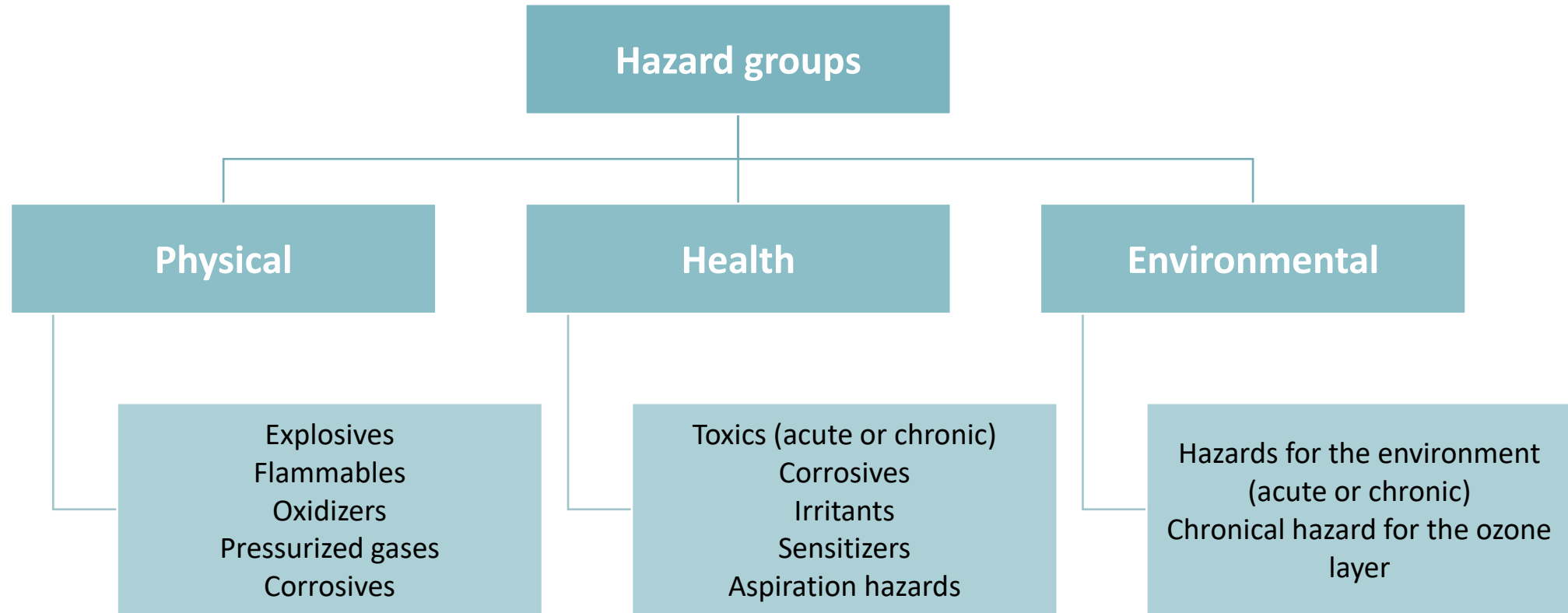
DS/57 Overview (2)



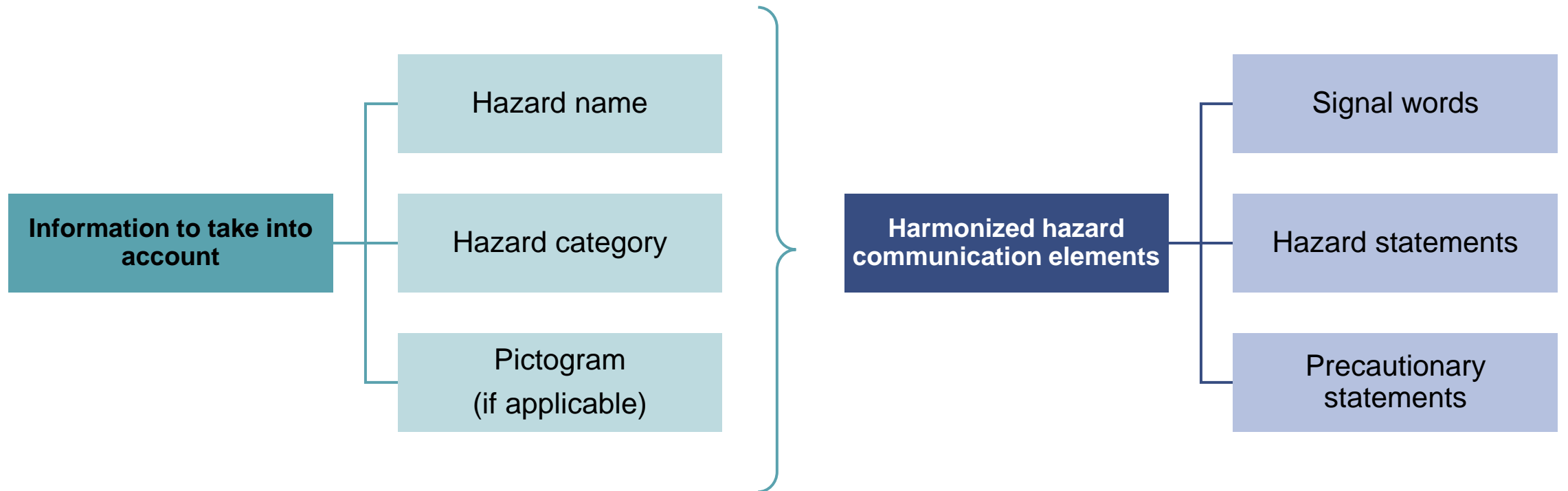
DS/57 Overview: Contents



DS/57 Overview: Hazards

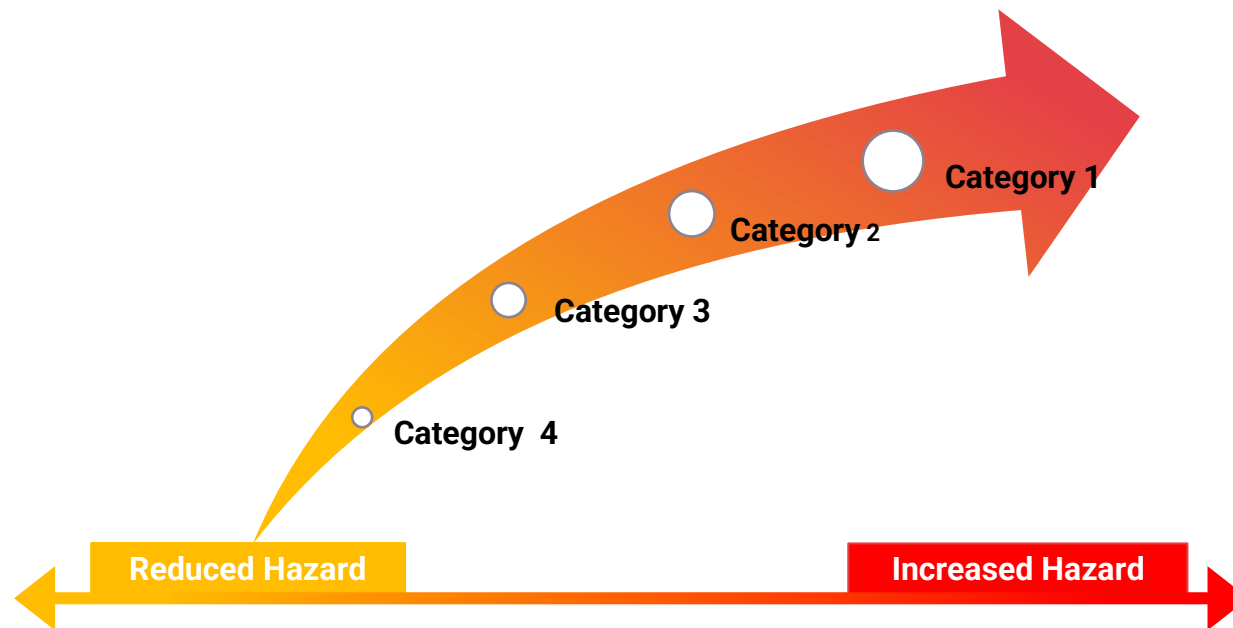


DS/57 Overview: Information



DS/57 Overview: Hazard categories




- DS/57 Overview – Hazard Category Full list of criteria within hazard classes
- They correspond to the hazard's severity within every class
- The DS/57 contains up to 4 categories



DS/57 Overview: Pictograms

FÍSICOS	
	Explosivos (cat. 1.1, 1.2, 1.3 y 1.4)
	Inflamables (gases, líquidos y sólidos) (mayoría de categorías)
	Comburentes
	Gas a presión
	Corrosivos

SALUD	
	Toxicidad aguda (ingestión, cutánea e inhalación) (cat. 1, 2 y 3)
	Toxicidad aguda (ingestión, cutánea e inhalación) (cat. 4)
	Corrosión/irritación cutánea (cat. 1)
	Corrosión/irritación cutánea (cat. 2)
	Lesiones oculares graves/irritación ocular (cat. 1)
	Lesiones oculares graves/irritación ocular (cat. 2)
	Sensibilización cutánea
	Sensibilización respiratoria
	Mutagenicidad de células reproductoras/in vitro
	Carcinogenicidad
	Toxicidad específica en órganos particulares – exposición única (cat. 1 y 2)
	Toxicidad específica en órganos particulares – exposición única (cat. 3)
	Toxicidad específica en órganos particulares – exposiciones repetidas (cat. 1 y 2)
	Peligro por aspiración

MEDIO AMBIENTE	
	Peligros para el medio ambiente acuático - peligro a corto plazo (agudo)
	Peligro para el medio ambiente acuático – peligro a largo plazo (crónico) (cat. 1 y 2)
	Peligros para la capa de ozono



DS/57 Overview: SDS Sections

1 Substance identification Company identification	2 Hazard identification	3 Substance composition and information on ingredients	4 First-aid measures
5 Fire-fighting 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 Ecotoxicological information
13 Disposal considerations	14 Transportation information	15 Regulatory information	16 Other information

DS/57 Overview: Labelling (1)

Labels must clearly and visibly include:

- Manufacturer or importer identification
- Product identifiers
- Hazard pictogram(s)
- Signal word
- Hazard statements
- Appropriate precautionary statements
- Nominal quantity of the substance
- Toxicological center (24/7 service) in Chile

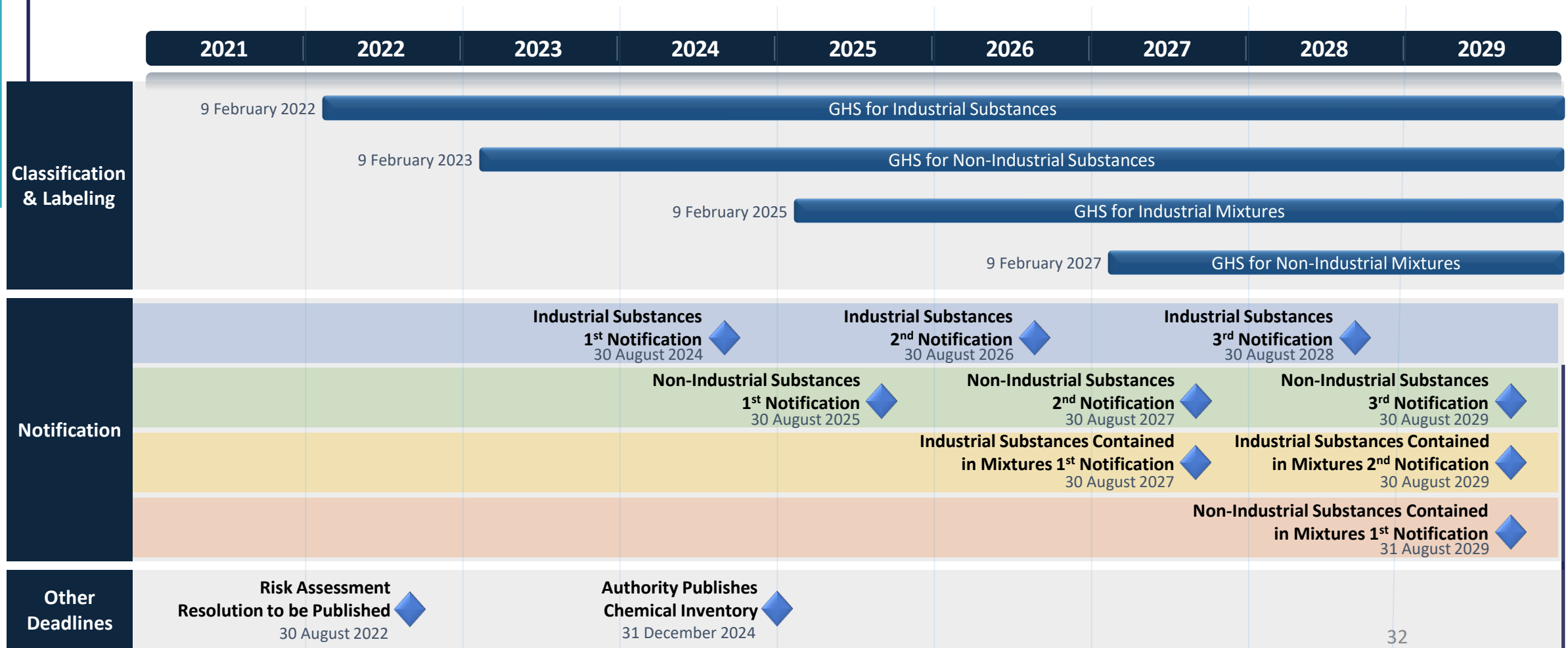
The supplier, manufacturer, or importers may decide the order in which the hazard statements and precautionary statements appears on the label

DS/57 Overview: Labelling (2)

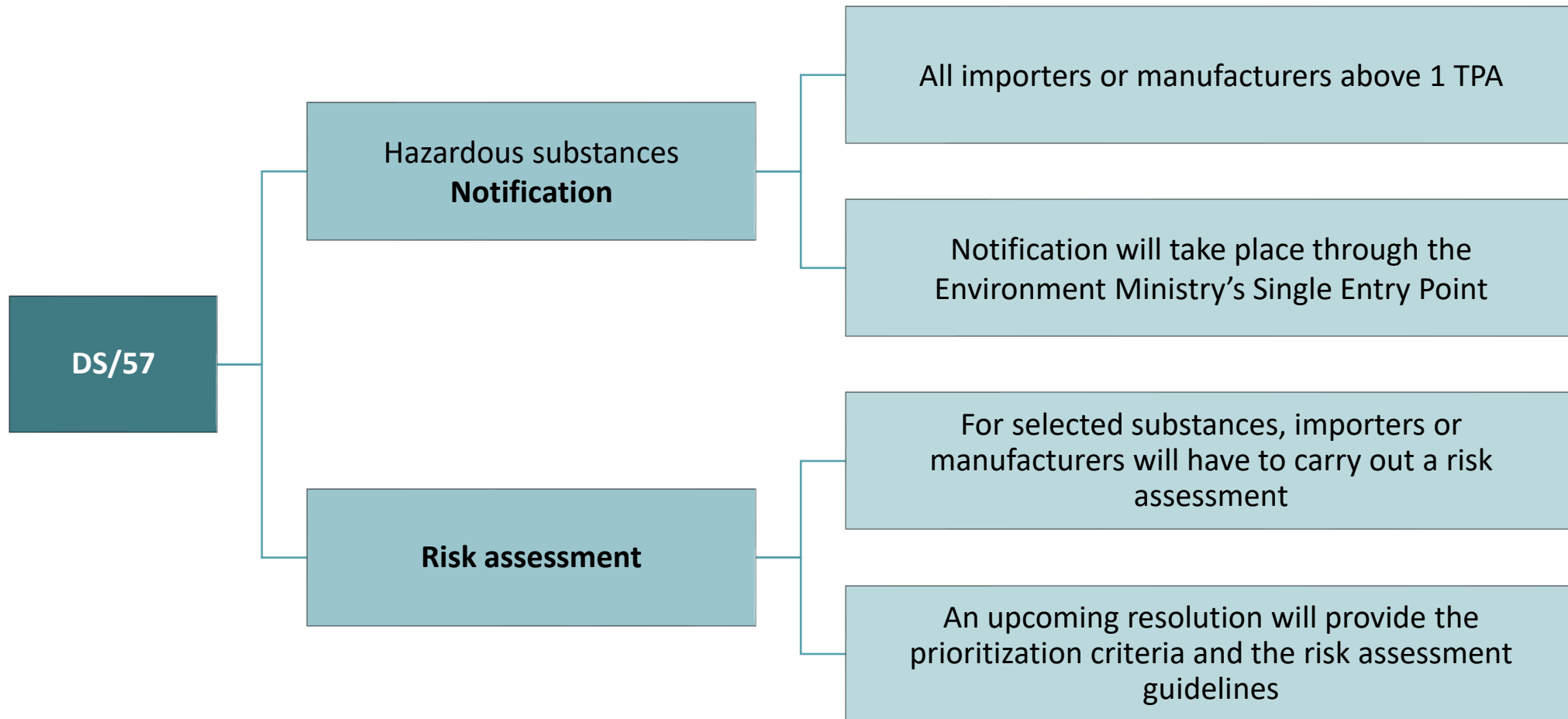
- Labels must be
 - firmly attached or printed in the container (indelibly)
 - the color used should prevail the contrast of hazard pictograms
 - text should stand out from the background

Container size	Minimum label surface (cm ²)	Minimum pictogram side dimension (cm)
< 50 ml	Not applicable	0,5 x 0,5
≥ 50 and < 125 ml	Not applicable	0,5 x 0,5
≥ 125 ml and < 250 ml	25	Not less than 1,0 x 1,0
≥ 250 ml and < 1 L	50	Not less than 1,5 x 1,5
≥ 1 L and < 5 L	100	Not less than 2,0 x 2,0
≥ 5 L and < 50 L	200	Not less than 2,5 x 2,5
≥ 50 L and < 500 L	400	At least 3,5 x 3,5
> 500 L	600	At least 6,0 x 6,0

DS/57 Overview: Timeline



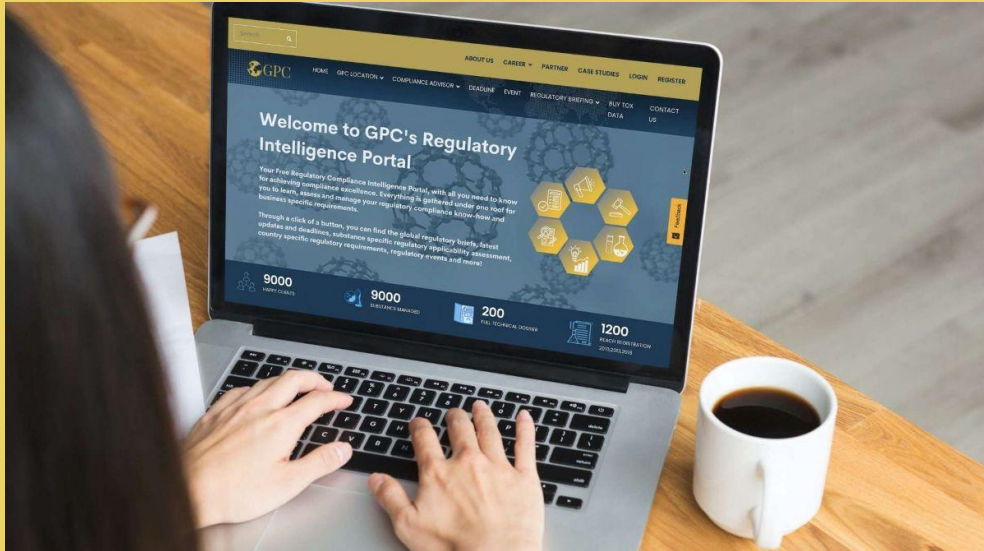
DS/57 Overview: Other aspects



How can GPC help you?

GPC services

- Preparation of classification and labels for chemical products
- Preparation and update of safety data sheet (SDS)
 - GHS for Non-Industrial Substances: Feb 9th, 2023
- Advice and technical support in chemical regulation
- Notification for upcoming deadlines
- Support in the processing of sectoral permits and resolutions



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