# Principles in Chemical legislation

what the graduate should know

- regulations and responsibilities
- basic obligations of producers, importers, distributers and downstream users
- sources of information
  - ✓ Safety data sheet
  - ✓ European Chemical Agency (ECHA)

https://echa.europa.eu

### **EU and SK Regulations**

Initially (from 1967):

EU Directives (still valid until 31.5.2017):

Dangerous Substances Directive and

**Dangerous Preparations Directive** 

were 2001 implemented to the national legislation:

SK Law No.163/2001 ammended in 2010 to the

Law No. 67/2010 on chemical substances and mixtures (references on EU Regulations)

Today (from 2006):

**REACH** Regulation (production/import)

<u>CLP</u> Regulation (classification, labeling and packaging and placing on the market)

3. 4. 2017

### **CLP**

## Regulation No. **1272/2008 of the** EP and of the Council on **classification, labelling and packaging** of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

#### Annexes:

Annex I: classification and labeling criteria

Annex II: special rules for labelling and packaging of certain substances and mixtures

Annex III, IV, V: label elements

Annex VI: harmonized classification

Annex VII: translation table

#### <u>Ammendements:</u>

Commission Regulation No. 790/2009

Commission Regulation No. 286/2011

Commission Regulation No. 618/2012

Commission Regulation No.. 487/2013

Commission Regulation No.. 758/2013

Commission Regulation No. 944/2013

Commission Regulation No.. 605/2014

Commission Regulation No.. 1297/2014

Commission Regulation No. 2015/1221

Commission Regulation No. 2016/918 (valid from 1.2.2018)

Commission Regulation No. 2016/1179 (valid from 1.3.2018)

#### Last consolidated version published by ECHA on 1.1.2017 on :

https://echa.europa.eu/regulations/clp/legislation

### **REACH**

Regulation No. **1906/2006** of the EP and of the Council concerning the

### Registration, Evaluation, Authorisation and Restriction of Chemicals

(REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

### Large number of ammendements

ammendements to the:

Annex IV and V (exemtions from registration)

Annex XIV (authorisation list – initially empty)

Annex XVII (restriction list)

consolidated version published by ECHA: https://echa.europa.eu/regulations/reach/legislation

### **Inventories**

Outcome of inventarisation of substances in EU (1981)

European **IN**ventory of Existing Chemical Substances - substances on EU market, existing/old substances (phase in)

EC: 2xx-xxx-x and 3xx-xxx-x

European List of Notified Chemical Substances – notified/new substances (non-phase in)

EC: 4xx-xxx-x

**NLP** – no longer polymers(*phase in*)

NLP: 5xx-xxx-x

**List numbers -** EC numbers automatically assigned by ECHA to the substances without EC number

**EC:** 6xx-xxx-x, 7xx-xxx-x, 9xx-xxx-x

SK EINECS on <a href="http://www.mhsr.sk/10615-menu/142497s">http://www.mhsr.sk/10615-menu/142497s</a>

CAS - Chemical abstract service number

### **C&L** inventory - binding classification

- ✓ Inventory of substances with harmonized classification (AnnexVI of reg. No.1272/2008)
- ✓ Inventory of substances with notified classification(CLP notification according to Articles 39 and 40 of reg. No.1272/2008

### **Definitions**

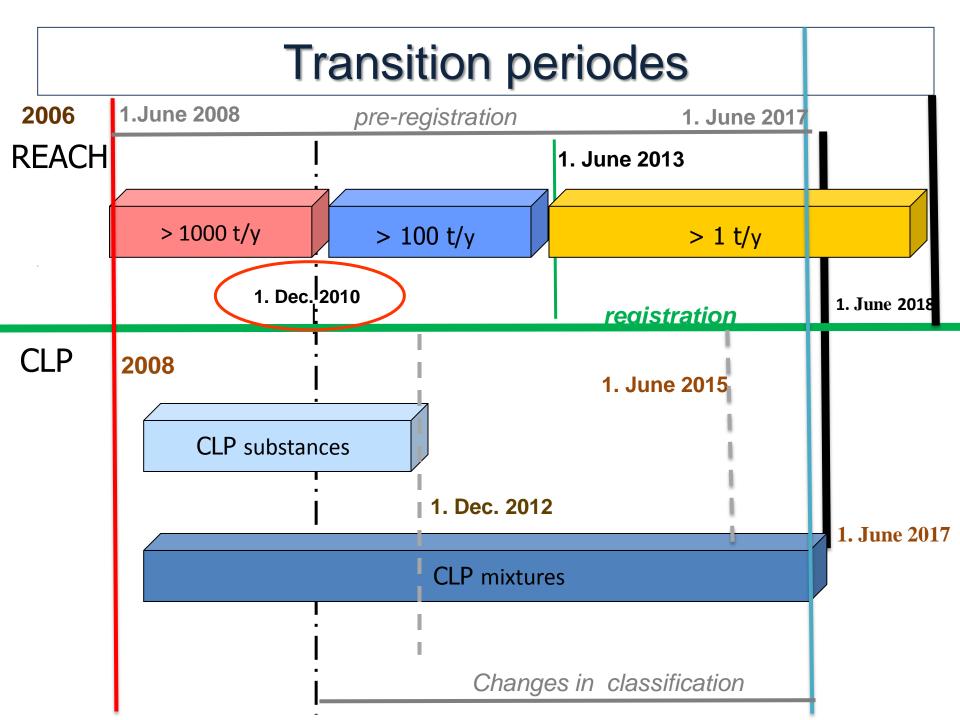
**Substance:** means a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition(> 80% of main compnent)

**Manufacturer:** means any natural or legal person established within the Community who manufactures a substance within the Community

**Import:** means the physical introduction into the customs territory of the Community **Importer:** means any natural or legal person established within the Community who is responsible for import

**Downstream user:** means any natural or legal person established within the Community, other than the manufacturer or the importer, who uses a substance, either on its own or in a preparation, in the course of his industrial or professional activities.

**Article:** means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition



## Main principes of REACH No data, no market

### **Duties of manufacturers and importers of chemicals**

### **Registration of chemical substances:**

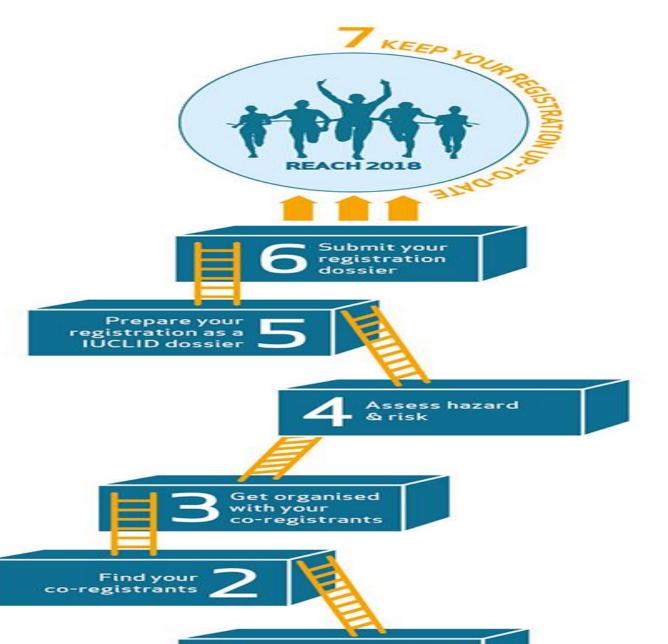
- √ > 1t/year
- ✓ phase in substances
- ✓ pre-registration benefit from "transition periodes (until 31.5.2017)
- ✓ exemptions from registration possible
- ✓ **Joint submission** Substance linformation Exchange Forum

### **Authorisation of chemical substances:**

- ✓ Candidate lis list of Susbstances of Very High Concern
- ✓ Authorisation list (sunset date, review period)

### <u>Duties of manufacturers and importers and Downstream users</u>

- ✓ Information in supply chain (Safety Data Sheet and Exposition Scenario)
- ✓ Communication in supply chain (up and down)



Know your portfolio

### Main principles of CLP

- 1. classification and labelling requirements for hazardous substances and mixtures
- 2. label elements:

hazard pictograms



signal words: Warning/Danger

Hazard statements: 2 physical hazard

3 human hazard

4 environmental hazard

Precautionary statements: 1 general

2 prevention

3 Response

4 storage

**5** disposal

3. Harmonized classification (Annex VI)

Table 3.1	1		Ι								× 10.1-1	
					Klasifikācia		Označovanie				Špecifické koncen- tračné limity, M-fak- tory	Poznámkas
č. indexu	Medzinárod	ná identifikácia látok	č. v ES	ē. CAS	Kódy tried a kate- górií nebezpeč- nosti	Kody výstráž- ných upozor- není	Kôdy môv ny	y piktogra- a výstraž- ých slov	Kôdy výstražných upozornení	Kódy ďalších výstražných upozomení		
601 021 00 3	toluene		203 625 9	108 88 3	Flam. Liq. 2 Repr. 2 Asp. Tox. 1 STOT Rep. 2 (*) Skin Irrit. 2 STOT Single 3	H225 H361d (***) H304 H373 (**) H315 H336	GHS0 GHS0 GHS0 Dgr	08	H225 H361d (***) H304 H373 (**) H315 H336			
601 022 00 9	o xylene; [1] p xylene; [2] m xylene; [3] xylene [4]		202 422 2 [1] 203 396 5 [2] 203 576 3 [3] 215 535 7 [4]	95 47 6 [1] 106 42 3 [2] 108 38 3 [3] 1330 20 7 [4]	Flam. Liq. 3 Acute Tox. 4 (*) Acute Tox. 4 (*) Skin Irrit. 2	H226 H332 H312 H315	GHS( GHS) Wng	07	H226 H332 H312 H315		(*)	С
Table 3.2	2			1	1	ı		1	•			1
601 021 00 3	toluene			203 625 9	108 88 3	F; R11 Repr. Ca R63 Xn; R48 65 Xi; R38 R67	3/20	65 67	48/20 63 37 46 62			
601 022 00 9	o xylene; [1] p xylene; [2] m xylene; [3] xylene [4]			202 422 2 [1] 203 396 5 [2] 203 576 3 [3] 215 535 7 [4]	95 47 6 [1] 106 42 3 [2] 108 38 3 [3] 1330 20 7 [4]	R10 Xn; R20 Xi; R38		Xn R: 10 20 S: (2 )25	/21 38	Xn; R20/21:	C ≥ 12,5 %	С

### Sources of information

### Safety data sheet:

### Information from manufacturer/importer down the supply chain

(16 sections containing important data on):

- identified use of substance (section 1)
- registration of substance (section 1)
- classification and labeling of product (substance or mixture) (section 2)
- hazardous components of substance or mixture (section 3)
- workers exposure (section 8)
- physical chemical properties (section 9)
- toxikological properties (section 11)
- ekotoxikological kých properties (section 12)
- other recommendations for **safe use** (section 4,5,6,7,8,10)
- **SVHC** substances/substances for authorisation (section 15)
- restrictions on the manufacture, placing on the market and use (section 15)

### REACH: TITLE XII: INFORMATION

### Article 119: Electronic public access

1. The following information held by the Agency on substances whether on their own, in preparations or in articles, shall be made publicly available, free of charge, over the

#### internet:

- (a) the name in the IUPAC Nomenclature, for dangerous substances ..
- (b) if applicable, the name of the substance as given in EINECS;
- information from registration dossiers
- information on CLP
- other information (biocides, PIC procedure)
- scientifical information

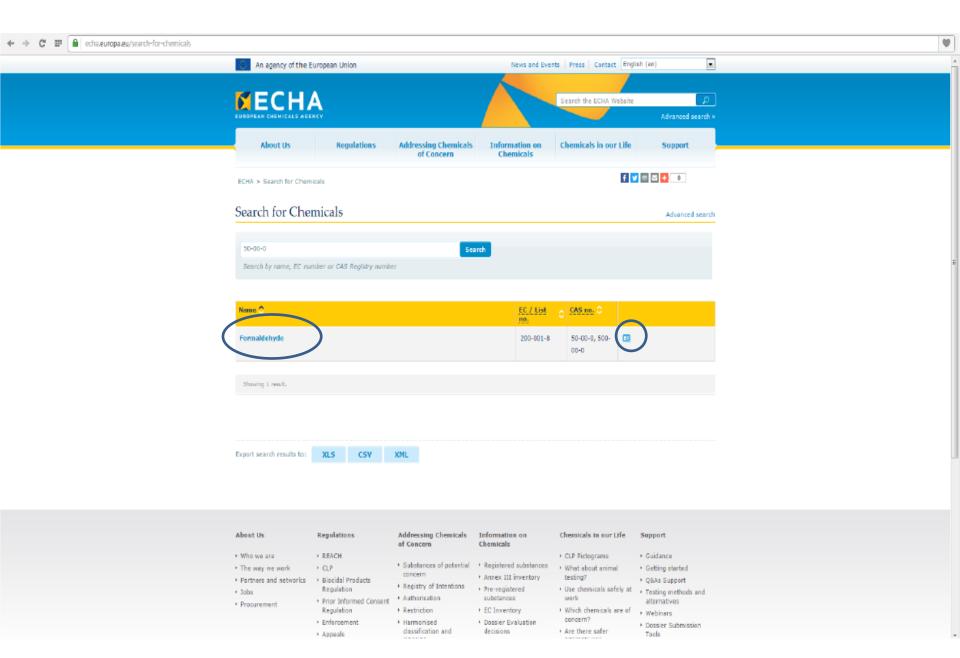
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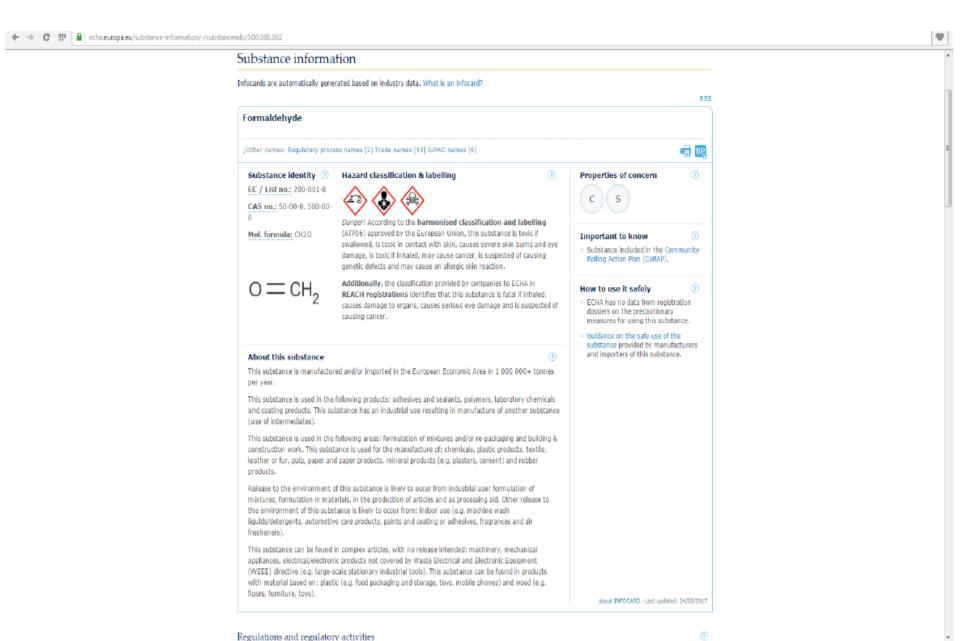
### ECHA home page



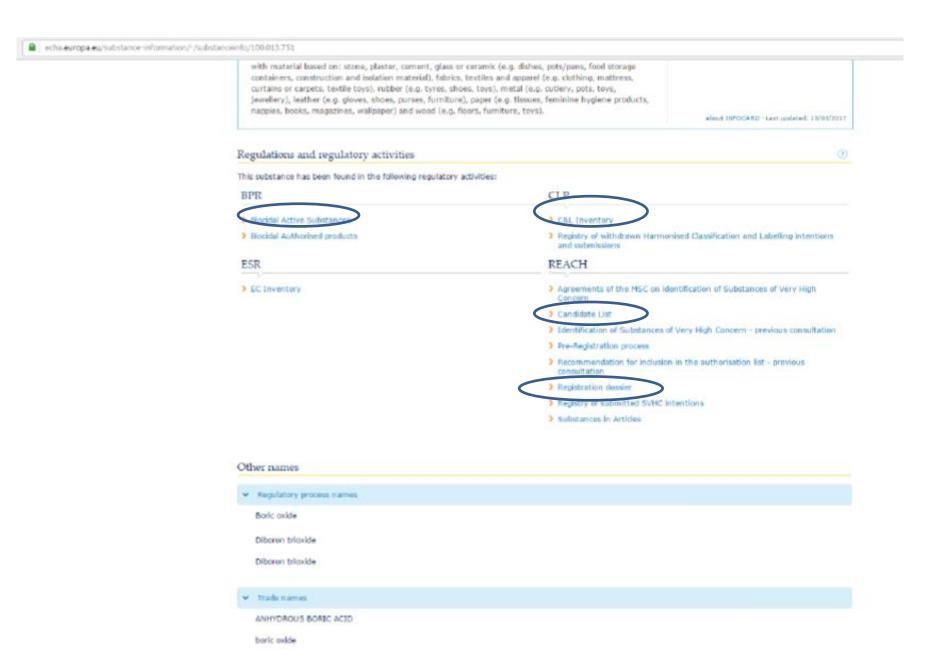
### Search for chemicals



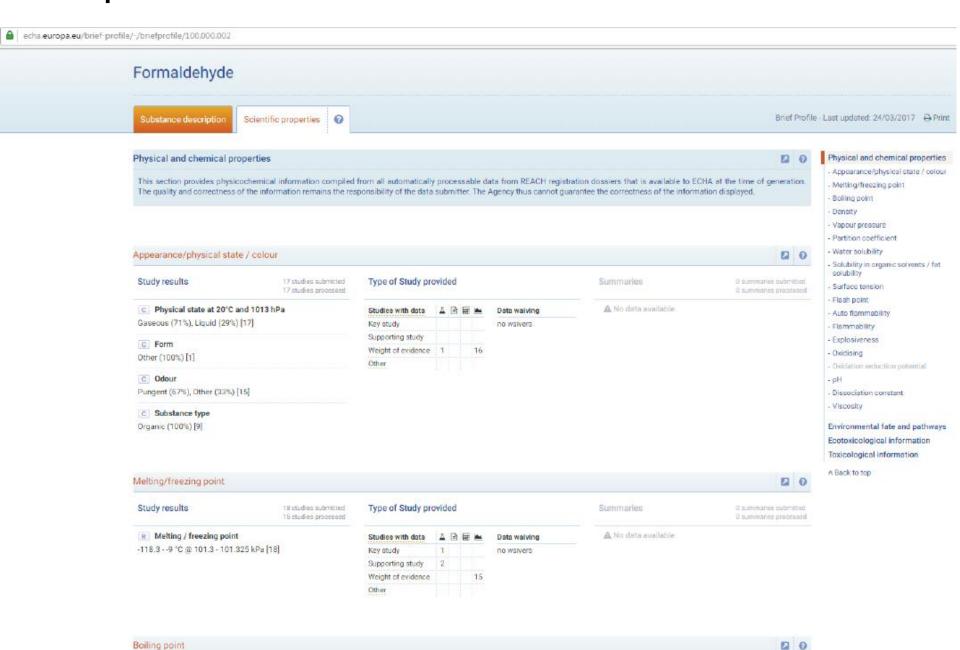
### Infocard



### Regulatory activities



### **Brief profile**



### CLP – harmonised classification

#### Wearmonised classification - Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

#### General Information

Index Number	EC Number	CAS Number	International Chemical Identification
649-224-00-6	269-822-7	68334-30-5	Fuels, diesel Gasoil - unspecified [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C20 and boiling in the range of approximately 163 oC to 357 oC (325 oF to 675 oF).]

ATP Inserted / Updated: CLP00 (a) CLP Classification (Table 3.1)

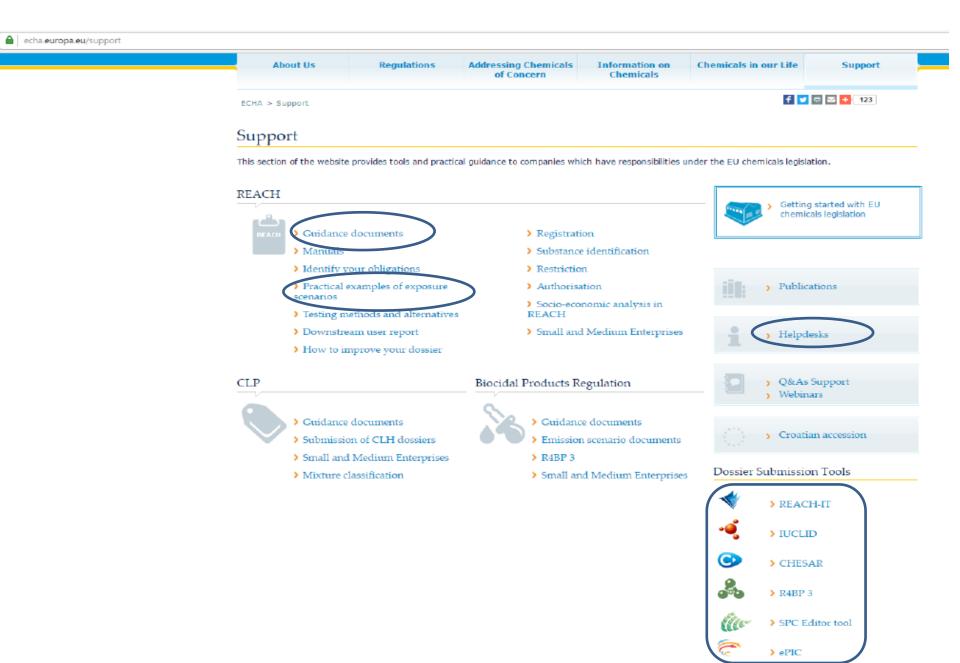
Classification				Labelling	Specific Concentration limits, M-	Notes	
	Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Factors	
	Carc. 2	Н351	H351		GHS08 Wng		Note N

Signal Words	Pictograms					
Warning						
	Health hazard					

### **CLP** – notified classification

Classific	ation		Labelling		0 10 0 11 11 11 11		Classification affected by	Additional Notified	Number of	Joint	
Hazard Class and Category Code(s)	Hazard Statement Code(s)	Hazard Statement Code(s)	Supplementary Hazard Statement Code(s)	Pictograms, Signal Word Code(s)	Specific Concentration limits, M-Factors	Notes	Impurities / Additives	Information	Notifiers	Entries	
Flam. Liq. 3	H226	H226									
Asp. Tox. 1	H304	H304		GHS02 GHS09 GHS08				State/Form	231	¥	
Skin Irrit. 2	H315	H315									
Acute Tox. 4	H332	H332				Note N					View
Carc. 2	H351	H351		GHS07 Dgr							details
STOT RE 2	H373 (Thymus, liver,)	H373									
Aquatic Chronic 2	H411	H411									
Skin Irrit. 2	H315	H315		GHS09 GHS08 GHS07 Wng							
Acute Tox. 4	H332	H332						State/Form	230	,	View details
Carc. 2	H351	H351				Note N					
STOT RE 2	H373 (Thymus, liver,)	H373									
Aquatic Chronic 2	H411	H411									
Carc. 2	H351	H351		GH508 Wng	1	Note N		State/Form	230	4	View details
Asp. Tox. 1	H304	H304						State/Form	230	¥	View details
Skin Irrit. 2	H315	H315									
Acute Tox. 4	H332	H332		GHS09 GHS08							
Carc. 2	H351	H351		GHS07		Note N					
STOT RE 2	H373 (Thymus, liver,)	H373		Dgr							
Aquatic Chronic 2	H411	H411									
Flam, Liq. 3	H226	H226				Note N		State/Form	230	•	View View
Skin Irrit. 2	H315	H315		GHS02 GHS09							
Acute Tox. 4	H332	H332									
Carc. 2	H351	H351		GHS08 GHS07							
STOT RE 2	H373 (Thymus, liver,)	H373		Wng							
Aquatic Chronic 2	H411	H411									
Flam, Liq. 3	H226	H226		GHSD2 GHSD9 GHSD8							
Asp. Tox. 1	H304	H304									
Skin Irrit, 2	H315	H315									
Acute Tox. 4	H332	H332									
Carc. 2	H351	H351		GHS07 Dgr							details
	H272 (Buse			- July							

### ECHA support: <a href="https://echa.europa.eu/sk/support/guidance">https://echa.europa.eu/sk/support/guidance</a>



### Than you for your attention