

Annex 4

Framework of the database

Annex 4 : Framework of the Database

Environmental database will contain the following fields:

Chemical number:	A unique number to bind different databases to each other
Chem. form:	Purity of testing substance, mixture etc.
Environment:	fresh water, marine, terrestrial
Test-type:	In vivo, QSAR, field studies
Test method:	e.g. OECD 202
Taxonomic group:	Taxonomical group
Species:	Testing organism
Concentration:	Concentration at which the effect has been observed
Unit of concentration:	unit of the concentration
Effect:	e.g. decreased fertility
Effect criterium	e.g. EC50
Remarks:	All other available and relevant information: e.g. there is testing time, special circumstances
Reference:	Original reference
Reference check:	Indicates whether the original reference has been checked
Source:	Source where the original reference was quoted
Conclusion on endocrine disruption:	Estrogen, Androgen, not EDS

Human-relevant toxicity database will contain the following fields:

Chemical number:	A unique number to bind different databases to each other
Chem. form:	Purity of testing substance, mixture etc.
Test method:	e.g. E-screen
Test-type:	In vitro/in vivo/QSAR/epidemiological information
Species/receptor:	
Cell type:	
Exposure route:	Oral, intraperitoneal etc.
Concentration/dose:	Concentration or dose at which the effect has been observed
Unit of concentration:	Unit of the concentration
Effect:	
Effectcriterium:	e.g. Increased uterus glycogen
Relative potency:	Estrogenic potency related to a reference substance
Remarks:	All other available and relevant information: e.g. there is testing time, special circumstances
Reference:	Original reference
Reference check:	Indicates whether the original reference has been checked
Source:	Source where the original reference was quoted
Conclusion on endocrine disruption:	Estrogen, Androgen, not EDS

Chemical database (this database attaches the different databases to each other)

Chemical number:	A unique number to bind different databases to each other
CAS number:	the CAS number(s) of the chemical
Chemical name:	Name of the chemical

Annex 5

Effect parameters included
in the database

Annex 5: Effect parameters included in the database

The following effects parameters were taken up in the database.

In-vivo experiments

Carcinomas of mammary glands, reproductive organs and thyroid gland

Levels of vit. A

Levels of T4, T3, Thyroxine

Effects on thyroid gland

Effects on offspring (mortality, abnormal development, behaviour)

Effects on number of young, number of implantations, hatching

Effects in which a clear relation with endocrine disruptance is stated

Effects on male and female reproductive organs

Effects on levels of several hormones

Behaviour only if a clear relation with endocrine disruptance is available

Vitellogenine levels in liver

Thickness of egg shells of shell of molluscs

Feminized males

Masculine females

Reproductive failure/delay

Sex reversal/skewed sex ratio

AChE/ChE inhibition

Imposex

Effect on metamorphosis

Endometriosis

Affected number of corpora lutea

Effects on estrous cycle

Histology

Effects on (sex) hormone metabolism

In-vitro experiments

Relative binding affinity

cell proliferation

Competitive binding to (sex) hormone receptors

Other in vitro effects related to endocrine disruption activity