







Joint NGO comments regarding <u>MOCS</u> and introduction of <u>hazard classes for endocrine disruption</u> in the CLP Regulation as follow-up to CASG-ED6.

18 February 2022

CHEM Trust, Client Earth, the European Environmental Bureau (EEB), and the Health and Environment Alliance (HEAL) welcome the opportunity to provide follow-up comments to the discussions in relation to the application of mixture rules for classifying MOCS, and on the updated draft proposal on hazard classes for endocrine disruptors in CLP, which took place at the CASG-ED6 meeting on 24th January 2022.

Comments in response to agenda point 3 on MOCS

To ensure consistency in legislation, we support an approach similar to that applying to CMRs, so that the classification of a mixture containing endocrine disrupting substances cannot be based on the testing of the mixture. Rather, it should be based on calculations of the content of the ED substances in the mixture.

Comments in response to agenda point 5 on new hazard classes for endocrine disruptors in the CLP regulation

Overall, we can support the proposed reorganisation of the text for the hazard classes and the proposed text for Category 1 ED.

However, we are very concerned that the proposed criteria text for Category 2 ED still entails an excessive burden of proof for identification. This is because it is required that one of the criteria either a) for adverse effects or b) for endocrine activity should meet the requirements for Category 1 ED. This is not consistent with the CMR approach and results in requesting a higher level of evidence for the identification of EDs than for the identification of CMR substances. Treating EDs differently than CMRs, and in particular differently than mutagens, cannot be justified. This approach will limit the number of substances to be identified as Suspected EDs, in particular in the current situation of overall lack of data on chemicals' ED properties and where many studies are conducted without relevant ED endpoints, as well as in light of the shortcomings of validated test methods with relevant ED endpoints. The development of horizontal ED criteria has been delayed for nearly 10 years now, and the health of humans and the environment is not at all properly protected against exposure to endocrine disruptors.

It is also important that the criteria text is coherent with the data that are available today and will become available in the future. Therefore, the text should keep the possibility for inclusion of other data than from humans/animals open, in order to be prepared for future new assessments methods. Likewise, the criteria should allow for the increased use of grouping of chemicals for classification purposes in the future.

Considering how contentious and complex this issue is, it is essential to minimise the possibility for differences in interpretations and avoid any confusion in the terminology used. Unfortunately, section 3.11.1.1 creates confusion: it uses the word 'consequently', which does not reflect accurately the full definition of what endocrine disruptors are and as set by Category 1, which rightly uses the concept of "biologically plausible link". The word 'consequently' implies a different level of certainty than the latter and could create grounds for judicial dispute. Therefore, the text must be changed. A definition simply omitting the word 'consequently' would be fully aligned with the current interpretation of the WHO definition under EU law.

Furthermore, we recommend that section 3.11.2.3.5 about exclusion from classification is deleted, as this information seems odd in this context and is more relevant for a guidance document.

Setting generic concentration limits is a method widely used. However, it has severe limitations when it comes to non-threshold substances, and especially to EDs. The usual principles for toxicology cannot always be applied due to ED specificities: non-threshold substances, low dose effects and NMDRs. If generic concentration limits are included, the text should at least foresee a review of the relevance of using the approach in the next 4 years.

We do understand the reasons for not suggesting a pictogram for the ED hazard classes at this stage while awaiting negotiations under the GHS. However, a pictogram showing the ED hazard is a very important warning signal to the public and the industry. In the short run, many endocrine disruptors for human health may also be classified as Reprotoxicants and/or Carcinogens, and therefore be assigned a pictogram. However, two important aspects should be stressed: first, endocrine disruptors for the environment will not be assigned a pictogram at all. Second, very soon when more data and knowledge emerge, endocrine disruptors for human health will be classified on the basis of other adverse effects than Reprotoxicants and Carcinogens. In fact, Resorcinol is already an example illustrative of such a situation. Therefore, and because ED effects are of equivalent level of concern as those of CMRs, a specific pictogram is already needed now to reflect the ED hazard without awaiting GHS discussions.

Lastly, we strongly recommend that CLP further integrates the concept of grouping of chemicals based on their intrinsic properties, so that the legislation allows for classification of a substance based on grouping of substances.

In the following section, we have indicated specific suggestions for text changes (in yellow) with accompanying comments.

Annex 1.A: Proposal of hazard class for human health

Text proposal	Proposal for text revisions	Our comments
3.11 Endocrine disrupting property for human health	Endocrine disrupting property disruptor for human health	We find it more consistent to use the wording 'endocrine disruptor for human health' as this terminology is used in 3.11.1.1 and table 3.11.1.
3.11.1 Definitions and general considerations		
3.11.1.1 Endocrine disruptor means a substance or a mixture of substances that alters function(s) of the endocrine system and consequently causes adverse health effects in an intact organism, or its progeny, or (sub)populations.	3.11.1.1 Endocrine disruptor means a substance or a mixture of substances that alters function(s) of the endocrine system and consequently causes adverse health effects in an intact organism, or its progeny, or (sub)populations.	We strongly recommend deleting the word 'consequently' to avoid creating any confusion. The text for Category 1 and Category 2 clearly defines that there should be a biologically plausible link between the adverse effects and the endocrine activity, therefore, it meets the WHO definition. The proposed wording already deviates from the WHO definition by not including 'exogenous', as well as omitting the reference to potential endocrine disruptors.
3.11.1.2 An adverse effect is defined for the purpose of section 3.11 as a change in morphology, physiology, growth, development, reproduction or lifespan of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences.		
3.11.1.3 An endocrine activity is defined for the purpose of section 3.11 as an interaction with the endocrine system that can potentially result in a response of the endocrine system, target organs and tissues. A		

	has an endocrine activity has the potential to alter the ne endocrine system.		
3.11.2 Classifica	ation criteria for substances		
human health, s	e of classification for endocrine disrupting properties for substances are allocated to one of two categories based evidence and additional considerations in a weight of		
Hazard ca	Table 3.11.1 Ategories for endocrine disruptors for human health		
Categories CATEGORY 1	Criteria Known or presumed endocrine disruptors for human health The classification in Category 1 is largely based on evidence from human and/or animal data. Such data shall provide evidence that the substance meets the 3 criteria below: a) an adverse effect in an intact organism or its progeny; and b) endocrine activity; and c) an endocrine disrupting mode of action, i.e. there is a biologically plausible link between the endocrine activity and the adverse effect. However, when there is information that raises doubt about the relevance of the endocrine disrupting mode of action for humans, classification in Category 2 may be more appropriate.	 do The classification in Category 1 is largely based on evidence from human and/or animal data possibly supplemented by other data. Such data shall provide evidence that the substance meets the 3 criteria below: a) an adverse effect in an intact organism or its progeny; and b) endocrine activity; and c) an endocrine disrupting mode of action, i.e. there is a biologically plausible link between the endocrine activity and the adverse effect. do 	We strongly support this new wording for the Category 1. In addition, we recommend adding a clear signal that human and animal data can be supplemented by other data to strengthen the WoE, and to be prepared for future new alternative assessment methods.

CATEGORY 2	Suspected endocrine disruptors for human health		
	 A substance is classified in Category 2 for endocrine disrupting properties, if: evidence is available to conclude that the substance meets one of the two criteria (a or b) above; and for the remaining criterion (a or b), the evidence is not sufficiently convincing to place the substance in Category 1; and for the third criterion (c), there must be evidence that the endocrine disrupting mode of action is biologically plausible. 	A substance is classified in Category 2 for endocrine disrupting properties, if: -evidence is available to conclude that the substance meets one of the two criteria (a or b) above; and - the evidence for the remaining criterion (a or b), the evidence is not sufficiently convincing to place the substance in Category 1; and - for the third criterion (c), there must be evidence that the endocrine disrupting mode of action is biologically plausible.	We strongly recommend revising the text proposal for Category 2. Currently, it still sets a too high burden of proof for identification of Suspected EDs, as it requires that one of the two criteria (a or b) meet the requirements for Category 1 ED. This is not consistent with the CMR approach, and rather requires a higher level of evidence than required to be classified as CMR. Further, if adopted, this approach will limit the number of substances identified as Suspected EDs. It is concerning in the current situation of overall lack of data on substances with ED properties and shortcomings of validated test methods with relevant ED endpoints.
Where there is evidence demonstrating that the adverse effects identified are not relevant to humans, the substance should not be considered an endocrine disruptor for human health. 3.11.2.2 Basis of classification		Where there is evidence demonstrating that the adverse effects and the endocrine activity identified are not relevant to humans, the substance should not be considered an endocrine disruptor for human health.	We strongly recommend either adding 'and the endocrine activity', or fully deleting this sentence, as long as all the consequences of endocrine disruption have not been fully explored. Human relevance should be considered by default.
Classification is made on the basis of the appropriate criteria, outlined above, and an assessment of the weight of evidence of each of the criteria (see section 1.1.1). Classification as an endocrine disruptor for human health is intended to be used for substances which have an intrinsic, specific property to produce an endocrine-related adverse effect.		Classification is made on the basis of the appropriate criteria, outlined above, and an assessment of the total weight of evidence of each of the criteria (see section 1.1.1). Classification as an endocrine disruptor for human health is intended to be used for	The text should follow the existing CLP approach of Weight of Evidence determination. Please, align the text with the similar text for classification for the environment in 4.2.2.2.

Endocrine-related adverse effects shall have been observed in the absence of other toxic effects, or if occurring together with other toxic effects the endocrine-related adverse effects are considered not to be a secondary non-specific consequence of the other toxic effects.	substances which have an intrinsic, specific property to produce an endocrine-related adverse effect.	
3.11.2.3 Weight of evidence		
3.11.2.3.1 A weight of evidence determination (see section 1.1.1) means that all available relevant scientific data (e.g. in vivo studies or adequately validated alternative test systems predictive of adverse effects in humans or animals; as well as in vivo, in vitro, or, if applicable, in silico studies and data from analogous substances using structure- activity relationship (SAR), informing about endocrine modes of action) are considered together, including peer-reviewed published studies and additional acceptable data.		We strongly recommend that CLP further integrates the concept of grouping chemicals based on their intrinsic properties, so that the legislation allows for classification of a substance based on grouping of substances.
 3.11.2.3.2 In applying the weight of evidence determination, the assessment of the scientific evidence shall, in particular, consider all of the following factors: (a) both positive and negative results; (b) the relevance of the study designs, for the assessment of adverse effects and of the endocrine activity; (c) the quality and consistency of the data, considering the pattern and coherence of the results within and between studies of a similar design and across different species; (d) the route of exposure, toxicokinetic and metabolism studies; (e) the concept of the limit dose, and international guidelines on maximum recommended doses and for assessing confounding effects of excessive toxicity; 	Delete this section	We recommend deleting this section. As currently drafted, it only indicates generalities on good scientific practise, which come across as rather superfluous and would be more relevant to include in a guidance document.
3.11.2.3.3 Using a weight of evidence approach, the link between the adverse effect(s) and the endocrine activity shall be established based on		

biological plausibility, which shall be determined in the light of current scientific knowledge.		
3.11.2.3.4 Evidence used for the classification of a substance as an endocrine disruptor for the environment in section 4.2 should be considered to assess the classification of the substance as endocrine disruptor for human health in the current section 3.11.		
 3.11.2.3.5 Evidence considered not to support classification for endocrine disruption It is recognised that evidence may be seen in humans, animals and/or in vitro that do not justify classification. Such effects include, but are not limited to: (a) evidence on adversity, endocrine activity or biological plausibility such as i. the available information is sufficient to postulate a non-endocrine mode of action where an endocrine mode of action can conclusively be excluded; ii. the structural or functional relationship between the key events that result in the specific adverse effect is not understood and considered implausible. (b) substance-induced species-specific mechanisms of toxicity, i.e. demonstrated with reasonable certainty to be not relevant for human health, shall not justify classification 	Delete this section	We strongly recommend deleting this entire section as detailed in our comments as follow-up to CASG-ED4. Further, we rather recommend adding a section on what evidence is needed for classification as ED. The CLP defines evidence needed for classification of hazardous substances and it seems therefore odd to introduce some examples of evidence that does not support classification because there may be many examples of this. We also find this text very challenging, and it can be the subject of many scientific discussions. Further, this exclusion from classification is based on the current scientific knowledge, without considering the huge knowledge gap on many aspects of endocrine disruption. Knowledge advances continuously and therefore, evidence should not be excluded because it is not yet understood, or be considered implausible with the current state of knowledge.

				for a guidance document.
3.11.3 Classification cri	teria for mixtures			
	of mixtures when data are some ingredients of the n			
3.11.3.1.1 The mixture shall be classified as an endocrine disruptor for human health when at least one ingredient has been classified as a Category 1 or Category 2 endocrine disruptor for human health and is present at or above the appropriate generic concentration limit as shown in Table 3.11.2 for Category 1 and Category 2, respectively.				
	Table 3.11.2 on limits of ingredients of or human health that trig mixture			
Ingredient classified as:	Generic concentration I classification of a mixtu Category 1 endocrine disruptor for human health		Delete	As stated in our comments as follow-up to CASG-ED4, it is problematic from a scientific point to introduce generic concentration limits for EDs. Some of the special characteristics of endocrine disruptors include the fact that
Category 1 endocrine disruptor for human health	≥ 0.1 %			protective thresholds cannot be set with sufficient certainty, the existence of low dose effects, and non-monotonic dose responses.
Category 2 endocrine disruptor for human health		≥1%		Moreover, because substances have various modes of action, the usual principles in toxicology cannot easily be transferred to
Note: The concentratio (w/w units) as well as g	n limits in Table 3.11.2 ap ases (v/v units).	ply to solids and liquids		endocrine disruptors.
3.11.3.2 Classification of complete mixture	of mixtures when data are	available for the		

3.11.3.2.1 Classification o	f mixtures will be based o	on the available test	
data for the individual ing	redients of the mixture ι	using concentration	
limits for the ingredients of	limits for the ingredients classified as endocrine disruptor for human		
health. On a case-by-case	basis, test data on mixtu	ires may be used for	
classification when demo	nstrating effects that hav	e not been established	
from the evaluation based	-		
the test results for the mi		U U	
account dose and other fa		•	
sensitivity and statistical a	•		
Adequate documentation		tion shall be retained	
and made available for re	view upon request.		
3.11.3.3 Classification of r		ot available for the	
complete mixture: bridgir	ig principles		
2.44.2.2.4.14/h			
3.11.3.3.1 Where the mix			
endocrine disrupting prop			
sufficient data on the indi	-		
(subject to paragraph 3.1: of the mixture, these data	· · ·		
•		ince with the	
applicable bridging rules s	et out in section 1.1.3.		
3.11.4 Hazard Communica	ation		
5.11.4 Hazard Communica			
3.11.4.1 Label elements s	hall be used in accordance	e with Table 3.11.3,	
for substances or mixtures meeting the criteria for classification in this			
hazard class.			
	Table 3.11.3		
Label elements of endo	crine disrupting properti	es for human health	
Classification	Category 1	Category 2	We can support the new hazard and
Symbol/pictogram	No pictogram is used	No pictogram is used	precautionary statements.

Signal Word	Danger	Warning
Hazard Statement	EUHXXX: May cause	EUHXXX: Suspected
	endocrine disruption	of causing endocrine
	in humans	disruption in humans
Precautionary	P203	P203
Statement Prevention	P263	P263
	P280	P280
Precautionary	P308 + P313	P308 + P313
Statement Response		
Precautionary	P405	P405
Statement Storage		
Precautionary	P501	P501
Statement Disposal		
	•	

However, we strongly support using a pictogram for the ED hazard in line with the CMR approach. Although many ED substances will also be classified as CMR, and therefore be assigned a pictogram, in the future many more substances will be classified as EDs on the basis of other endpoints than CMR, e.g. disruption of the immune or thyroid system and thus, there is a need for a pictogram specific for the ED hazard. Resorcinol is already an example of such a situation. In case it is decided to await the ED criteria discussions under the GHS before deciding on a pictogram, then a clear deadline for introducing a pictogram for the ED hazard should be inserted in the legal text.

Annex 1.B: Proposal of hazard class for the environment

Text proposal	Proposal for text revisions	Our comments
4.2 Endocrine disrupting property for the environment	Endocrine disrupting property disruptor for the environment	We find it more consistent to use the wording 'endocrine disruptor for the environment' as this terminology is used in 4.11.1.1 and table 4.2.1.
4.2.1 Definitions and general considerations		
4.2.1.1 Endocrine disruptor means a substance or a mixture of substances that alters function(s) of the endocrine system and consequently causes adverse health effects in an intact organism, or its progeny, or (sub)populations.	4.2.1.1 Endocrine disruptor means a substance or a mixture of substances that alters function(s) of the endocrine system and consequently causes adverse health effects in an intact organism, or its progeny, or (sub)populations.	We strongly recommend deleting the word 'consequently' to avoid creating any confusion. The text for Category 1 and Category 2 clearly defines that there should be a biologically plausible link between the adverse effects and the endocrine activity, therefore, it meets the WHO definition. The proposed wording already deviates from the WHO definition by not including 'exogenous', as well as the reference to potential endocrine disruptors.
4.2.1.2 An adverse effect is defined for the purpose of section 4.2 as a change in morphology, physiology, growth, development, reproduction or lifespan of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences.		
4.2.1.3 An endocrine activity is defined for the purpose of section 4.2 as an interaction with the endocrine system that can potentially result in a response of the endocrine system, target organs and tissues. A substance that has an endocrine activity has the potential to alter the function(s) of the endocrine system.		

4.2.2 Classificat	ion criteria for substances			
the environmen	e of classification for endocrine disrupting properties for nt, substances are allocated to one of two categories gth of evidence and additional considerations in a weight			
Hazard cat	Table 4.2.1 egories for endocrine disruptors for the environment			
Categories CATEGORY 1	 Criteria Known or presumed endocrine disruptors for the environment The classification in Category 1 is largely based on evidence from animal data. Such data shall provide evidence that the substance meets the 3 criteria below: a) an adverse effect in an intact organism or its progeny; and b) endocrine activity; and c) an endocrine disrupting mode of action, i.e. there is a biologically plausible link between the endocrine activity and the adverse effect. However, when there is information that raises doubt about the relevance of the endocrine disrupting mode of action in Category 2 may be more appropriate. 	based o <mark>supple</mark> provide the 3 c a)	assification in Category 1 is largely on evidence from animal data possibly mented by other data. Such data shall e evidence that the substance meets riteria below: an adverse effect in an intact organism or its progeny; and endocrine activity; and an endocrine disrupting mode of action, i.e. there is a biologically plausible link between the endocrine activity and the adverse effect.	We strongly support this new wording for the Category 1. In addition, we recommend adding a clear signal that animal data can be supplemented by other data to strengthen the WoE, and to be prepared for future new alternative assessment methods.
CATEGORY 2	Suspected endocrine disruptors for the environment			

A substance is classified in Category 2 for endocrine disrupting properties, if: - evidence is available to conclude that the substance meets one of the two criteria (a or b) above; and - for the remaining criterion (a or b), the evidence is not sufficiently convincing to place the substance in Category 1; and - for the third criterion (c), there must be evidence that the endocrine disrupting mode of action is biologically plausible. 4.2.2.2 Basis of classification Classification is made on the basis of the appropriate criteria, outlined above, and an assessment of the total weight of evidence (see 1.1.1). Classification as an endocrine disruptor for the environment is intended to be used for substances which have an intrinsic, specific property to produce an endocrine-related adverse effect. Endocrine-related adverse effects shall have been observed in the absence of other toxic effects, or if occurring together with other toxic	A substance is classified in Category 2 for endocrine disrupting properties, if: - evidence is available to conclude that the substance meets one of the two criteria (a or b) above; and - the evidence for the remaining criterion (a or b), the evidence is not sufficiently convincing to place the substance in Category 1; and - for the third criterion (c), there must be evidence that the endocrine disrupting mode of action is biologically plausible.	We strongly recommend revising the text proposal for Category 2. Currently, it still sets a too high burden of proof for identification of Suspected EDs, as it requires that one of the two criteria (a or b) meet the requirements for Category 1 ED. This is not consistent with the CMR approach for human health, and rather requires a higher level of evidence than required to be classified as CMR. Further, if adopted, this approach will limit the number of substances identified as Suspected EDs. It is concerning in the current situation of overall lack of data on substances with ED properties and shortcomings of validated test methods with relevant ED endpoints.
effects the endocrine-related adverse effects are considered not to be a secondary non-specific consequence of the other toxic effects.		
4.2.2.3 Weight of evidence		
4.2.2.3.1 A weight of evidence determination (see section 1.1.1) means that all available relevant scientific data (in vivo studies or adequately		We strongly recommend that CLP further integrates the concept of grouping chemicals

validated alternative test systems predictive of adverse effects humans or animals; as well as in vivo, in vitro, or, if applicable, studies and data from analogous substances using structure-ar relationship (SAR), informing about endocrine modes of action considered together, including peer-reviewed published studie additional acceptable data.	, in silico ctivity n) are	based on their intrinsic properties, so that the legislation allows for classification of a substance based on grouping of substances.
 4.2.2.3.2 In applying the weight of evidence determination, the assessment of the scientific evidence shall, in particular, conside the following factors: (a) both positive and negative results; (b) the relevance of the study design for the assessment of effects and its relevance at the (sub)population level, an assessment of the endocrine activity; (c) the adverse effects on reproduction, growth/developmed other relevant adverse effects which are likely to impact (sub)populations. Adequate, reliable and representative monitoring data and/or results from population models well be considered where available; (d) the quality and consistency of the data, considering the and coherence of the results within and between studie similar design and across different taxonomic groups; (e) the route of exposure, toxicokinetic and metabolism studies in the concept of the limit dose, and international guidelin maximum recommended doses and for assessing conformation effects of excessive toxicity; 	der all of adverse ad for the ent, and t on e field or shall as pattern es of a udies; es on unding	We recommend fully deleting this section. As currently drafted, it only indicates generalities of good scientific practise, which come across as rather superfluous and would be more relevant to include in a guidance document.
4.2.2.3.3 Using a weight of evidence approach, the link betwee adverse effect(s) and the endocrine activity shall be establishe biological plausibility, which shall be determined in the light of scientific knowledge.	ed based on	

 4.2.2.3.4 Evidence used for the classification of a substance as an endocrine disruptor for human health in section 3.11 should be considered to assess the classification of the substance as endocrine disruptor for the environment in the current section 4.2. 4.2.2.3.5 Evidence considered not to support classification for endocrine disruption It is recognised that evidence may be seen in animals and/or in vitro that do not justify classification. Such effects include, but are not limited to: 	Delete this section	We strongly recommend deleting this entire section as detailed in our comments as follow-up to CASG-ED4. Further, we rather recommend adding a section on what evidence is needed for classification as ED.
 (a) evidence on adversity, endocrine activity or biological plausibility such as i. the available information is sufficient to postulate a non-endocrine mode of action where an endocrine mode of action can conclusively be excluded; ii. the structural or functional relationship between the key events that result in the specific adverse effect is not understood and considered implausible. (b) substance-induced species-specific mechanisms of toxicity, i.e. demonstrated with reasonable certainty to be not relevant for human health, shall not justify classification. 		The CLP defines evidence needed for classification of hazardous substances and it seems therefore odd to introduce some examples of evidence that does not support classification because there may be many examples of this. We also find this text very challenging, and it can be the subject of many scientific discussions. Further, this exclusion from classification is based on the current scientific knowledge, without considering the huge knowledge gap on many aspects of endocrine disruption. Knowledge advances continuously and therefore, evidence should not be excluded because it is not yet understood, or be considered implausible with the current state of knowledge. In all circumstances this text is more relevant for a guidance document.
4.2.3 Classification criteria for mixtures		

	mixtures when data are a some ingredients of the m			
environment when at le Category 1 or Category present at or above the	hall be classified as an end east one ingredient has be 2 endocrine disruptor for e appropriate generic cond or Category 1 and Category	een classified as a the environment and is centration limit as		
	Table 4.2.2 on limits of ingredients of r the environment that tri mixture			
Ingredient classified as:	Generic concentration I classification of a mixtu Category 1 endocrine disruptor for the environment		Delete	As stated in our comments as follow-up to CASG-ED4, it makes no sense to introduce generic concentration limits for EDs. The usual principles for toxicology cannot always be used for EDs due to their
Category 1 endocrine disruptor for the environment	≥ 0.1 %			specificities; non-threshold substances, low dose effects and NMDRs.
Category 2 endocrine disruptor for the environment		≥1%		
Note: The concentratio (w/w units) as well as g	n limits in Table 4.2.2 app ases (v/v units).	ly to solids and liquids		
4.2.3.2 Classification of complete mixture	mixtures when data are a	available for the		
data for the individual i	of mixtures will be based ingredients of the mixture ts classified as endocrine	using concentration		

used for classification of established from the established from the established from the established class, the test restaking into account does taking into account does observations, sensitivitities test systems. Adequated	e-by-case basis, test data o when demonstrating effect valuation based on the indi sults for the mixture as a wi se and other factors such a sy and statistical analysis of e documentation supportin available for review upon r	s that have not been vidual ingredients. In nole shall be conclusive s duration, endocrine disrupting g the classification shall	
4.2.3.3 Classification of complete mixture: bric	f mixtures when data are no Iging principles	ot available for the	
endocrine disrupting p sufficient data on the i (subject to paragraph 4 of the mixture, these d	ixture itself has not been te roperties for the environm ndividual ingredients and s 4.2.3.2.1) to adequately cha lata shall be used in accord es set out in section 1.1.3.	ent, but there are milar tested mixtures rracterise the hazards	
4.2.4 Hazard Communi	cation		
	shall be used in accordanc meeting the criteria for cla		
	Table 4.2.3		
	locrine disrupting propertie		
Classification	Category 1	Category 2	We can support the new hazard and
Symbol/pictogram	No pictogram is used	No pictogram is used	precautionary statements.
Signal Word	Danger	Warning	However, we strongly support using a
Hazard Statement	EUHXXX: May cause	EUHXXX: Suspected	pictogram for the ED hazard, see also
	endocrine disruption in the environment	of causing endocrine	comments to table 3.11.3. When it comes to endocrine disruptors for the environment,

		disruption in the
		environment
Precautionary	P203	P203
Statement Prevention	P273	P273
Precautionary	P391	P391
Statement Response		
Precautionary	P405	P405
Statement Storage		
Precautionary	P501	P501
Statement Disposal		