

Committee for Risk Assessment (RAC) Committee for Socio-economic Analysis (SEAC)

Response to comments document (RCOM)

to the opinions on the Annex XV dossier proposing restrictions on five **Phenylmercury compounds**

ECHA/RAC/RES-O-0000001362-83-02/S2

ECHA/SEAC/[reference code to be added after the adoption of the SEAC opinion]

SUBSTANCE NAME	IUPAC NAME	EC NUMBER	CAS NUMBER
Phenylmercury acetate	Phenylmercury acetate	200-532-5	62-38-4
Phenylmercury propionate	Phenylmercury propionate	203-094-3	103-27-5
Phenylmercury 2-ethylhexanoate	Phenylmercury 2-ethylhexanoate	236-326-7	13302-00-6
Phenylmercury octanoate	Phenylmercury octanoate	-	13864-38-5
Phenylmercury neodecanoate	Phenylmercury neodecanoate	247-783-7	26545-49-3

4 July 2011

Phenylmercury acetate, EC number: 200-532-5 CAS number: 62-38-4 Phenylmercury propionate, EC number: 203-094-3 CAS number: 103-27-5 Phenylmercury 2-ethylhexanoate, EC number: 236-326-7 CAS number: 13302-00-6 Phenylmercuric octanoate, CAS number: 13864-38-5 Phenylmercury neodecanoate, EC number: 247-783-7 CAS number: 26545-49-3 Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

Substances:

Phenylmercury acetate, EC number: 200-532-5 CAS number: 62-38-4 Phenylmercury propionate, EC number: 203-094-3 CAS number: 103-27-5 Phenylmercury 2-ethylhexanoate, EC number: 236-326-7 CAS number: 13302-00-6 Phenylmercuric octanoate, CAS number: 13864-38-5 Phenylmercury neodecanoate, EC number: 247-783-7 CAS number: 26545-49-3

General comments

	General comments									
Ref	Att	Date	Count	Ту	Comment ¹	Dossier Submitter (DS) Response	RAC Rapporteurs	SEAC		
			ry/	ре			comments	Rapporteurs		
			Organi	-				comments		
			sation/							
			MSCA							
113	Ν	2011/	/ /	(A)	1. It is unclear why the restriction is	Based on information in the report	We have exactly the	Agree with DS		
		03/24		(B),	proposed for the particular set of phenyl-	"Options for reducing mercury use in	same concern. So in the	response. The		
		16:13	Individu	(C),	mercury compounds. I am concerned that	products and applications and the fate	RAC opinion an	restriction addresses		
			al	(F)	we could have a succession of separate	of mercury already circulating in	important consideration	five phenylmercury		
					proposals for restrictions on mercury	society" (Cowi and Concorde	is added: "RAC	compounds which are		
					compounds with a propensity to form	East/West, 2008, also referred to as	considers that if the five	considered as		
					methyl-Hg, when a more effective and	Lassen et. al (2008)) the uses of certain	substances mentioned	showing the same		
					efficient strategy may arise from a more	phenylmercury compounds as catalysts	above were to be	hazards to		
					comprehensive treatment. [Perhaps this	in polyurethane systems were identified	replaced by other	environment and		
					needs to be done ahead of dossier	as significant applications of mercury.	organomercury	health and, further,		
					submission, so is too late for the current	It was stated that certain	compounds this	which are used		
					restriction proposal. However, it remains	phenylmercury compounds are	restriction could	extensively.		
					relevant for future dossier submissions.]	manufactured and used in extensive	become ineffective.			
						amounts and no other mercury	Therefore, in addition			
						compounds (except for mercury itself)	to the conditions			

¹ Plese note that any page numbers or section numbers in the comment column refer to the annex XV report published on the ECHA website.

^{* (}A) The proposal; (B) Information on hazard and risk; (C) Available information on alternatives; (D) Justification for action on a Community-wide basis; (E) Why a restriction is the most appropriate Community-wide measure; (F) Socio-economic Assessment of Proposed Restriction; (G) Stakeholder consultation; (H) Other information

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						were identified as being used in such large volumes in Europe. The extensive use of some of these phenylmercury compounds were confirmed during further consultations in connection with the elaboration of the Annex XV dossier. As a follow-up of initial comments regarding other organomercury compounds that may be used as alternatives more information has been collected and are included in the revised Background document (BD) (Part C). We agree that in principle a comprehensive treatment of mercury and mercury compounds with regard to restrictions on manufacture, use and mixtures and articles containing them would be desirable. At this stage also the legal aspect of a change in the scope must be taken into account.	mentioned above, RAC recommends considering necessary measures for verifying and controlling that other organomercury compounds are not used as alternative to the restricted substances."	
					2. It appears that the dossier does not address all uses of the phenyl-Hg compounds under consideration, noting comments by others about use in (e.g.) cosmetics. We are concerned not only about the risks that this may involve, but	The proposal is to prohibit manufacture, use of the substances as well as placing on the market of mixtures and articles containing the substances above a concentration limit of .0.01% of Hg. The consultations	The Cosmetic products entry is mentioned in our opinion. As indicated by DS the concentrations are below the limit	Agree with DS response + see other DS responses on the same issue.

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			MSCA		also that a piece-meal treatment of chemicals may reduce the efficiency and effectiveness of the REACH legislation, e.g. requiring a series of restrictions to be worked on when one would do.	with industry did not reveal other uses of these compounds in Europe of significance. However, the use in eye cosmetics was indicated by UK in the early comments. Regulation 1223/2009 concerning eye cosmetics sets a condition of maximum 0.007 % (of Hg) in eye cosmetic products. Considering the different concentration limits it is evident that the proposal is not directly in conflict with the provisions in the cosmetics directive. However, it is recognised that the inclusion of manufacture, placing on the market and use would limit the availability of these phenyl mercury compounds for these kinds of products. The actual need for use in eye cosmetics today, and consequently the implications in this area has not yet been investigated further.	concentration proposed in this restriction.	
					3. A clear justification for the limit value of 0.01% Hg by weight is necessary. We assume that it links to a particular analytical method, in which case it would be useful to know why that is preferred over others with possibly different detection limits. Perhaps	A limit value of 0.01% Hg was chosen as all identified analytical methods (both field and laboratory instruments) have detection limits below 0.01%. As the phenylmercury compounds included in this restriction proposal are	In our opinion, we underline that this 0.01% limit is sufficient regarding the concentrations needed to obtain the catalytic	RAC issue.

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				agreement is needed on ways of standardizing the reporting of limit value setting in restriction dossiers in order to improve consistency.	primarily used as catalysts in the polyurethane production, and the mercury concentrations in polyurethane articles normally are more than 10 times higher than the proposed limit value, the limit value is sufficiently low to prevent the use of the phenylmercury compounds as catalysts. The use of e.g. phenylmercury acetate in cosmetic products (the only other identified application area for these phenylmercury compounds) is regulated by Regulation 1223/2009 that allows at maximum 0.007 % (of Hg) in eye cosmetic products. A new appendix 10 "Analytical methods (mercury)" is added to the revised BD to include more information.	activity.	
				4. In places (e.g. Table B5.30) it is implied that DNEL and DMEL are equivalent terms. However, establishment of a 'minimal- effect' level implies a judgment on what constitutes 'minimal'. For example, risks may appear low, but this on its own is no indication of the outcome of the comparison of costs and benefits. 'DMEL' therefore	The headlines with DNEL/DMEL are remnants from the CSR template that has been filled in. This was commented on also in the eRCOM. Following that we have intentionally left both DNEL and DMEL in these tables, as well as introduced a paragraph in the revised BD (see paragraph below) that asks	RAC based its risk justification on a non- threshold approach because of the PBT, LRT, biomagnfication properties and neurodevelopmental effects of metabolites;	Please see the response from the RAC rapporteurs regarding the DNEL/DMEL in this specific dossier. In general, a restriction proposal

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			sation/ MSCA					
					entails some socio-econo-political judgement and it is nto clear how RAC can reach this without SEAC input.	RAC to consider whether these effects have a threshold or not and which concept that should be applied, DNEL or DMEL. We agree that the derivation of a DMEL could have implications for SEAC as well as RAC. We also think that establishment of a DMEL is a societal and ethical issue that should not be left up to single MSCAs to decide. Reproduced from the BD, section B.5.11: "So far no apparent threshold has been identified for neurotoxicity in children exposed to me-Hg in utero (Castoldi et al., 2008; Rice 2004). The threshold for neurological effects from mercury vapour has also been questioned recently (Richardson et al., 2009). The concept of DNEL or DMEL for mercury was introduced in this report in order to mention previous assessment works; however the chosen approach is a non-threshold approach."	so a focus on DNEL/DMEL is not needed in this dossier.	has to demonstrate that there is an unacceptable risk to HH or the ENV that has to be addressed on a community-wide basis. As far as the unacceptable risk is concerned, SEAC has to rely on the input from RAC and considers this input further in its own evaluation of the restriction proposal.
					5. It is unclear whether organotins are considered as a technically viable alternative. If so, there should be more detailed consideration of the risks	The risks of organotin compounds in general are high and the use of several organotin compounds are regulated in the EU, this is stated in Section C.4.	RAC highlighted that – with reference to the updated annex XVII organostannic entry -	Agree. This has been addressed by RAC.

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					associated with their use.	Catalysts based on organotin compounds seems no longer to be specifically marketed as alternatives for the current uses of phenylmercury catalysts, cf. Section C.1 and C.1.2, C.1.2.4, C.1.2.6 and C.4. However, there is some conflicting information the BD concerning the actual use of organotin compounds as catalyst. The uses of these compounds as alternatives are clearly not desirable. Reference to REACH Annex XVII entry 20 (organostannic compounds) are included in the background document, and more detailed consideration of the risks of the use of organotins are included in section C.1.2.4, C.3.2 and C.4.	these compounds are not suitable alternatives.	
					6. In section F2.1 we are told that: "It is assumed that any reductions in MCPUE systems under the baseline scenario relate to those MCPUE systems where it is "relatively easy" to substitute with an alternative mercury free system. It is thought that around 30% of MCPUE systems available in 2007 (i.e. 75 systems) would be difficult to replace. It is	This assumption is based on what is considered to be the most likely behaviour. In practice some producers may choose to substitute their systems early even though the substitution is challenging. However we consider the assumption that the systems that are easiest to replace will be the first to be substituted as fairly robust.	We also were unsatisfied with the description of the difficulties to substitute. This is not a critic to DS, as we know the difficulties to request that kind of information from industry; and	Agree with DS response. Further, it was not possible to obtain information from industry on what a "difficult-to- replace" system might be.

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					considered reasonable to assume that any reductions in the absence of a restriction would relate to those MCPUE systems where it is easier and less costly to switch to an alternative. Therefore, it is assumed that the most difficult systems (totalling 75) will be last to be replaced." This leads to a question of what constitutes a 'difficult' system, and to what extent substitution has already occurred in such systems, noting the behavioural dynamics of environmental controls in various industries, where companies vary greatly in their willingness to adopt difference practices.		sometime even with good will industry is not able to produce such information. We thus build our opinion only on what is clearly known: 70% substitutions in 2-3 years, and we thus propose to shorten restriction to a 3-year delay before implementation. This is also justified by a scientific and political context which is at least 20 years old and which has thus let a lot of time to anticipate a way to avoid mercury in processes and products.	
					7. Section F2.2 deals with 'sunk costs'. From a social perspective these are not relevant – money spent cannot be unspent.	No sunk cost is expected to occur as the result of the proposed restriction.	1	Sunk costs are costs which have been incurred but which cannot be reversed. They are irreversible costs contrary to

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								other costs which may be recovered in some cases.
					8. Treatment of effects does not appear to have been done in a comprehensive way. Noting the statement: "The risk characterisation for consumers indicates that phenylmercury acetate release from articles in the indoor environment may cause adverse health effects to consumers" leaves open questions about the exposure of workers in production and transportation of the chemicals, and manufacturing and installation of the flooring. Although it may not be possible to quantify these effects they are still relevant to the proposal – even if it is considered for any reason that these risks are negligible, it would be useful to be told.	Following the early comments, risk characterisation of workers have been included in the revised BD. Risk assessment of the following occupational exposure scenarios now may be found in sections B.9.3.2.1- 2.2.Open application of the PU systems for casting of PU parts (ECETOC-TRA Tool estimates), and Release from PU elastomer gym flooring (measurments). These mercury-catalyzed PU floors were laid in 1960-1980, so we assume that no workers are exposed today during the laying of new floors. However abatement workers and teachers in gymnasiums might be exposed and this is now described in the report.	We confirm the improvements regarding both consumer and occupational exposures. In our opinion we mention these possible risks as additional arguments beside all brought under the non- threshold approach.	RAC issue.
					Also, where reference is made to the results of Rice and Hammitt, comment should be provided that they did not considered ecological benefits at all and that quantification of the benefits through reducing IQ loss deals only with effects on	This is correct, however in the dossier we refer to Appendix 2 of the restriction dossier for mercury in measuring devices where this issue is highlighted. In the revised BD this reference is made more clearly and it is	/	Agree with DS response.

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					earnings.	not referred to the Rice & Hammitt study explicitly.		
					9. It is hard to understand Table F6. In particular, why the benefit/kg changes from scenario 1 to scenario 2 if there is (as stated) no discounting. More significantly, though, the principal of direct adoption of estimates from other studies is of questionable value without consideration of the way that these estimates were derived, and whether the methods and assumptions used are consistent with those followed elsewhere in the dossier (e.g. on risk assessment) and in the available guidance.	The difference between the two scenarios is the amount of mercury released to the environment. This is explained in the footnotes below the table. This table is not included in the revised version of the BD. As stated in the document we do not consider the estimates from this study to be directly transferable to the restriction proposed. Therefore we do not calculate the net benefit of the proposed restriction. In the revised BD Table F.6 is replaced by a more general interval of potential benefits from Appendix 2 in the restriction dossier for mercury in measuring devices.	We had the same kind of comment and thus proposed some modifications in what we could call the "baseline" and how we can really compare the benefits of the different options in term of avoided emissions. This alternative approach is described in our opinion and the BD is amended accordingly.	Agree with DS response.
85	N	2010/ 12/22 15:53	/ / German y MSCA	(B), (C), (F)	Comment for the German CA:	We would like to thank the German CA for useful comments.	1	
					• In the dossier it is not explicitly mentioned why the restriction aims for those particular five phenylmercury salts. Since the hazard assessment is mainly based on the reaction into methylmercury and mercury it would	Based on information in the report "Options for reducing mercury use in products and applications and the fate of mercury already circulating in society" (Cowi and Concorde	The grouping of these five phenylmercury compounds – based on usage and chemical breakdown similarities -	SEAC rapporteurs agree with DS response. The choice of the five phenylmercury

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					seem sensible to include further substances.	East/West, 2008, also referred to as	was further justified by	compounds is
					The probable reason is economic relevance	Lassen et. al (2008)) the uses of certain	DS. In addition, RAC is	justified and based
					but this is not elaborated. Since the	phenylmercury compounds as catalysts	in favour of extending	<i>(inter alia)</i> on
					hazardous nature of mercury (and	in polyurethane systems were identified	the scope to all other	tonnages and
					methylmercury) has already been agreed	as significant applications of mercury.	organomercury because	industry's statements
					upon by several international (and EU)	It was stated that the phenylmercury	on a long term the same	on their uses.
					bodies it might be sufficient to rationalize the need for action with reference to the	compounds are manufactured and used	metabolites will raise	
						in extensive amounts in Europe and	the same risks. As it	
					goals already agreed upon (e.g. EU-strategy	that no other mercury chemicals are	isn't possible to widen	
					on mercury, Global Mercury Assessment by	used in such large volumes in Europe.	the initial proposal, RAC has added an	
					UNEP, etc.). To assess the relevance of the	33 phenylmercury compounds or		
					problem it would be helpful to give some information of the production and usage	mixtures (reaction masses containing phenylmercury compound) were	important consideration in their opinion: "RAC	
					scale of the phenylmercury compounds	preregistered to ECHA in 2008, none	considers that if the five	
					considered in relation to the overall mercury	of the preregistered phenylmercury	substances mentioned	
					problem. For example Lassen et al. (2008)	compounds were registered in 2010.	above were to be	
					estimate a mercury production of roughly	This information is included in	replaced by other	
					370 tonnes in the EU. The overall	Appendix 9. At this stage the legal	organomercury	
					production of Hg-chemicals amounts to	aspect of a change in the scope must be	compounds this	
					12% of this.	taken into account. Environmental	restriction could	
					1270 01 0113.	emissions from the manufacture and	become ineffective.	
						use of the five compounds that were	Therefore, in addition	
						identified has been estimated and	to the conditions	
						compared to estimated or reported total	mentioned above, RAC	
						emissions from anthropogenic sources,	recommends	
						more information in this regard is	considering necessary	
						included.	measures for verifying	
							and controlling that	

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			MBCA				other organomercury compounds are not used as alternative to the restricted substances."	
					• Several times the impression is given that the overall production of phenylmercury salts may phase out by itself in a time-frame similar to the restriction proposal with a five year transition period (e.g. one comment in the Stakeholder consultation was "It is likely production will not continue beyond 2013"). This should be more prominently discussed (e.g. as an RMO of its own).	Without a restriction (proposal) we think that at least the use (and manufacture) of the phenylmercury compounds for certain areas where substitution is more difficult would probably not phase out by itself. Moreover, no quantitative data are available on imports of articles containing the substances but this may constitute a significant amount. It is expected that the decline in use in imported articles will be less pronounced than the assumed baseline for manufacture and use in EU + EFTA.	Calculations are provided to estimate the emissions that may occur if no restriction is applied and it should be notice that these estimations may be even underestimated if one considers that use decay rate may slow down because of the substitution difficulties for some applications.	This 'probable' spontaneous phase- out is based on industry's statements and on the (already observed) decreasing trend in phenylmercury compounds uses. However, as DS says, it might only concern the sectors where substitution is easy to implement. For the others, a restriction proposal is needed to impulse incentives to substitution.
84	N	2010/ 12/21 12:14	/ / Ireland MSCA	(A) (B), (C), (D) (E),	The Irish Competent Authority (IECA) would like to thank the Norwegian CA for the work it has undertaken to prepare this Annex XV dossier to propose a restriction on phenylmercury compounds.	We would like to thank the Irish CA for useful comments.	/	/

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

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		ry/ Organi sation/	ре			comments	Rapporteurs comments
		MSCA					
			(F)				
				In general, we support the principle that a permanent EU restriction on phenylmercury compounds should be introduced to address the risk to the environment and humans via the environment.	Thank you for the support.	RAC rapporteurs acknowledge the support of The Irish Competent Authority.	/
				We would also like to contribute the following comments and observations in relation to the Annex XV restriction dossier under the specified headings:		/	/
				A. Suggested restriction		/	/
				A.1 Wording: We suggest one small text change to paragraph 1 and 2 (in bold), as follows:	Text of proposed restriction is amended.	Rapporteurssupportthesesmallmodifications.	/
				Shall not be manufactured, placed on the market, or used, as a substance or in mixtures in concentrations greater than 0,01 % weight by weight (w/w) after [5 years of the entry into force].		Agree; Please notice that RAC is proposing an option-3 in which the implementation period is reduced to 3 years (instead of 5)	The final proposal is slightly different from both the original proposal by Norway and that proposed by the commenter. The wording proposed in SEAC's draft opinion follows the advice of the Forum.
				Articles, or homogenous parts of articles, containing the substance(s) in concentrations greater than 0,01 %		Agree; same note as above.	Please see the response above.

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					weight by weight (w/w) shall not be placed on the market [5 years of the entry into force].			
					A.2 Affect of other EU legislation on reducing the identified risk: We would like to suggest that the dossier would have benefited from inclusion of a section which discusses the aims of the current proposal in comparison to how the:		It's to note that DS included additional discussion on other legislations.	/
					• Regulation 1102/2008 on the banning of exports of metallic mercury and certain mercury compounds and mixtures and the safe storage of metallic mercury will contribute to reducing the risk associated with mercury compounds.	According to Regulation (EC) No 1102/2008 the export ban covers metallic mercury, cinnabar ore, mercury (I) chloride, mercury (II) chloride and mixtures of metallic mercury with other substances including alloys of mercury, with a concentration of at least 95 wt % Hg.	As answered by DS, the proposed restriction covers an area which isn't taken into account by Regulation EC/1102/2008.	We agree. This legislation has been extensively discussed in SEAC and it would have been appropriate to have it mentioned in the BD (although it does not cover the phenylmercury substances in its present version).
					• Other EU risk management instruments (e.g. establishing EU environmental emission/occupational limit values) will contribute to reducing the risk associated with phenylmercury compounds.	European indicative occupational limit value for mercury and divalent inorganic mercury compounds already in place (Commission Directive 2009/161/EU). The Scientific Committee on Occupational Exposure	We agree that focus is today rather on environmental emissions, and even with this concern in mind IPPC or WFD	Indeed, several RMOs which are relevant for the risks targeted in the proposal are described and

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						Limits (SCOEL) also proposed biological limit values (in SCOEL/SUM/84, 2007: 10 µg Hg/l blood; 30 µg Hg/g creatinine in urine), but these have so far not been implemented in European legislation. Establishment of an occupational limit value (indicative or binding) for the discussed phenylmercury substances would probably not contribute a lot to the risk management of these substances as the greatest concern regards emission to the environment, including from service life of articles and waste, and subsequent degradation to inorganic mercury. Other existing community wide risk management options like directive on integrated pollution prevention and control, water framework directive and their effect on reducing the identified risk are described in detail in part E1.	need to be completed by a direct restriction of manufacture and uses because of the PBT and LRT properties of breakdown products.	evaluated in section E.1, but of course more could have been mentioned.
					A.3 Limit value: We note that a justification for the choice of limit value of 0.01% Hg (w/w) for the restriction proposal is not included in the dossier. It would have been beneficial if the dossier had clarified	More information is included in the revised report.	It should here be said that expected concentrations (range of concentration needed to obtain the catalytic	Relevant and important question indeed. See DS response.

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					whether the choice of limit value was linked to the risk identified or the limit of detection of the analytical method? A.4 Scope and conditions of restriction: Paragraph 2 of the restriction states: 'articles or homogenous parts of articles containing the substance(s) in a concentration above 0.01 % Hg weight by weight (w/w) shall not be placed on the market after [5 years of the entry into force]'. In our opinion, this wording may result in some confusion as to whether the aim of the restriction is to restrict mercury content in articles. We would like to suggest that further consideration is given to this wording of the restriction.	The wording has been amended in order to clarify that the restriction aims to restrict the phenylmercury compounds, however, because of the current inadequacy of analytical methods to quantify the content of the phenylmercury compounds in PU- articles and the possibility that the compounds may be partly degraded in the articles, the concentration limit is proposed to relate to mercury.	function) in parts of articles are between 0.1 and 0.5%. Mercury quantification can be made by several methods and protocols for measuring in plastic samples are well known. For phenylmercury compounds quantification may be less standardised and possibly only semi- quantitative as degradations may occur during manufacture process or during service-life of articles. The more pragmatic solution would be to measure mercury and if necessary to confirm the presence of some phenylmercury compounds in a second step.	Agree with the possible confusion. For the reasons explained by the DS, the concentration limit proposed concerns mercury and not phenylmercury. This is clearer in the proposal presented in SEAC's draft opinion.

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					A.5 Pre-registrations: We suggest it would have been beneficial for the dossier to have included information on whether or not the substances have been pre registered and if so, by how many pre-registrants?	Easily available information on preregistration is included (the number of pre-registrants is not available). None of the organomercury substances are registered.	This subject is also bound to the grouping issue which is notably described in Tang and Nielsen, 2010; & appendix 12. Preregistration information are not clearly indentified in dossier, however following dialogue-2 it was decided to add some data which were prepared by DS on preregistrated mercury compounds which may be used as alternatives.	Information is available in Appendix 9.
					B – Information on hazard and risk		/	/
					B.1 Exposure Assessment: We suggest it would be useful if the Annex XV dossier gave some indication about what reductions have been seen in mercury exposure in ambient air as a result of the global measures to reduce mercury emissions by comparing ambient air monitoring data undertaken by Member States under Directive 2004/107/EC.	General information about mercury exposure in ambient air as a result of global measures would be of interest but is considered to be outside the scope for this restriction proposal.	As this restriction can be justified by the PBT and LRT properties of the breakdown products and exposure of man via environment, it can be acceptable not having occupational exposure data.	Agree with DS response.

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					B.2 Emissions: The environmental quantitative conclusion indicates that emissions to the environment "are below what is predicted to cause an effect". As phenyl mercury is only one source of mercury emissions to the environment, in order to justify the restriction of this particular fraction, we suggest it would have been beneficial for the dossier to include an estimate of the total emissions of mercury to the environment from all sources.	This would require collection of a lot of information and much work and is considered to be outside the scope of the restriction proposal for these specific compounds.	We agree that comparison with all other sources is important to understand the part of this restriction in global mercury reduction. However we also acknowledge the difficulties to collect information on all other sources which are numerous. We thus had suggested just further developing the discussion about the "4- 7% contribution to European air emissions"; and this was made by DS.	This information would indeed have been interesting in order to understand the contribution of phenylmercury in mercury emissions to air but the SEAC rapporteurs also agree that this would have induced important and not necessary work. There is a difference between information which is "nice to know" and information that we "need to know"
					B.3 Emission factor: In Section B 9.2.2 we suggest that it would be beneficial to reference the data used to derive the air and waste water 0.0016% & amp; 0.00015% emission factor.	Site specific information has been used to derive the emission factors for manufacture, details are confidential since there are < 4 manufacturers.	Manufacturing industry provided some data which justified decreasing these emission factors. However the quality of these data is not	RAC issue.

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			MSCA				sufficient and cannot be	
							considered as representative of the	
							whole manufacture in	
							Europe, therefore	
							rapporteurs consider	
							that there's a risk to underestimate these	
							emissions and that this	
							point should be taken	
							into account when	
							discussing the final	
							estimation of the whole	
							emissions in Europe from phenylmercury	
							compounds life-cycle;	
							this is particularly	
							important as	
							manufactured quantities	
							are more than 4 times	
							the quantity used in	
							Europe (around 3/4 are exported). This was	
							done by rapporteurs.	
					B.4 Indoor air concentrations: Section	We agree that based on the information	On one side data were	Agree that the
					B.9.3.2.2 (Consumer exposure) of the	we have been able to obtain it is not	measured after a rather	exposures might be
					dossier presents an exposure scenario for	possible to conclude that this is a	long time (so	overestimated for th

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			ry/	ре			comments	Rapporteurs
			Organi					comments
			sation/					
			MSCA					
					the use of phenylmercury catalysts in	"realistic worst case". However, since	underestimate when	use This is
					polyurethane flooring. The dossier states	only for this use actual measurements	compared to a brand	however more of a
					that "PU flooring with mercury catalysts	are available we consider them as being useful and relevant for consideration of	new article), and on the	RAC issue.
					has been previously widely used in school gyms and sport arenas in the USA (and	a potential (and historical) use.	other side the surface/volume ratio	
					probably also in Europe). Polyurethane	However, it should be recognised that	and the frictions maybe	
					flooring is widely applied in the EU today,	the measurements were made in gyms	very important for	
					but different non-mercury catalysts seem to	long time after they were new,	flooring (so	
					be used for this application" The dossier	exposures may be assumed to have	overestimate when	
					submitter considers this use of phenyl	been much higher in rooms with new	compared to an article).	
					mercury compounds as a "worst case"	floorings, this will be pointed out in the	At the end, using as	
					exposure scenario. However, it is not clear	text.	reference emissions	
					from the information presented in the		from gym flooring	
					dossier whether phenyl mercury catalysts		appears as an	
					are still used in PU flooring in Europe.		interesting strategy to	
					Therefore, while we agree that this scenario		help estimates from	
					could be considered a worst case exposure		articles.	
					scenario for consumers, it is not possible to			
					conclude whether it represents a "realistic			
					worst case" exposure scenario. B.5 Minimum risk level (MRL): In Section	ATSDR has established a chronic	DS precised the	RAC issue.
					B 9.3.2 we suggest that the dossier indicates	inhalation MRL of $0.2 \mu\text{g/m3}$ for	information.	KAC 1880C.
					whether the MRL figure of 200ng/m3	metallic mercury. This is specified in	mormation.	
					relates to elemental mercury.	B.5.11.		
					B.6 2005 emission tonnage: In Section B	This is further clarified in the revised	DS provided additional	Acknowledged.
					9.3.2.3 In order to quantify what 4% of	report. More data and comparison with	data and discussion	
					European emissions in 2005 equates to we	reported total air emissions from	about the emissions	

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

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			MOCH		suggest it would be useful if the dossier indicated what the 2005 emission tonnage is.	anthropogenic sources in EU-27 for 2008 (and 2005) is now included in the revised report.	coming from phenylmercury compounds compared to the global air emissions.	
					B.7 EU consumption tonnage: In section B10.2 a figure of 16-31.5 tonnes per yr is quoted as the EU- EFTA consumption. In Appendix 1 'Predicted environmental concentrations' section a total consumption figure of 33 tonnes per year is reported. As both figures account for minor imports we suggest that it would have been beneficial if the dossier had included some clarification as to the differences in the two estimations.	We apologize for this confusion. The inconsistency was due to the fact that the figure of 16-31.5 tonnes covered only the use of phenylmercury neodecanoate in the EU + EFTA, whereas the figure 33 tons assumed some use of phenylmercury acetate and phenylmercury ethylhexanoate as well. The basis for the different calculations has been clarified in the revised report.	Inconsistency was clarified by DS.	Acknowledged.
					C – Information on alternatives C.1 Catalysts based on organotins: Organotin based catalysts are suggested as alternatives to mercury catalysts in the Annex XV dossier. In our opinion, the dossier would have benefited from a discussion on how Regulation 276/2010 amending Annex XVII for Organotins will influence the future availability of organotin-based catalysts.	In our view such discussions is outside the scope of the restriction proposal. Catalysts based on organotin compounds are no longer specifically marketed as alternatives for the current uses of phenylmercury catalysts. However, the uses of these compounds as alternatives are clearly not desirable and more detailed consideration of the risks of the use of organotins are included in the background document	/ In RAC's opinion and in the revised BD was added a mention to the entry 20 of annex XVII and a statement that this is a clear signal that organostannics are not suitable alternatives.	Agree with DS response.

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					section C.1.2.4, C.3.2 and C4. Reference to REACH Annex XVII entry 20 (organostannic compounds) is included in the background document.		
				D – Justification for action at EU level D.1 Member states manufacturing, exporting, importing: In order to fully justify the restriction for community wide action, we suggest it would be useful to have a table indicating the Member States where each phenyl mercury compound is manufactured, exported, imported and used including an estimated tonnage.	We have not been able to obtain such detailed information. Industry contacts have pointed out that mercury catalysts are widely used in the UK, Spain and Italy; relatively little used in Germany, although the overall industrial output is very high; while France is somewhere in the middle. The information obtained indicates that formulation probably takes place by 50 to several hundred companies, processing may take place by hundreds to thousands of companies.	/ This information is not needed to build an opinion on this restriction: As users are several thousands in several European countries, it's justified to restrict at the European level.	/ Acknowledged.
				D.2 Restriction on manufacturing: We are of the opinion that the case for including manufacturing in the restriction proposal is not clear in the dossier. We believe the fact that inclusion or exclusion will have the same effect is not sufficient justification for inclusion. We feel that the dossier would have benefited from a more thorough justification for extending the restriction	Not including manufacture in the restriction, with a restriction in place on the other life cycle stages, would mean continued manufacture of the substances for export only. However, as a result of long range transport of mercury this would not remove the pollution problems associated with these substances. Moreover,	Rapporteurs fully agree with these DS' arguments to also include manufacture in this restriction. One could also add that emissions from the manufacture stage maybe underestimated	SEAC rapporteurs agree that the question of the inclusion of manufacturing is a question for which justification might not appear so clear as industry states that

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			Organi					comments
			sation/ MSCA					
			MSCA		conditions to manufacturing based on the	considering the hazards and risks with	(see rapporteurs	export would not
					identified risks.	mercury we think that export can not be justified on ethical grounds. We have included separate calculations of cost and benefits related to a ban on manufacture in the report.	comment for Irish's CA comment on environmental emission factors).	continue with or without a restriction on manufacture. anyway. However, significant efforts have been made to better justify the restriction on manufacture. SEAC rapporteurs agree that the problem of LRT has to be taken into account in the examination of that question, which is now included in the new analysis
								presented in the BD.
					E – Why a restriction is the most appropriate EU-wide measure		/	/
					E.1 Enforcement of restriction: If documentary evidence (e.g. safety data sheets/supply chain lists/certificates of compliance from suppliers etc.) does not clarify whether or not phenylmercury compounds with a concentration limit of	This may be an option.		RAC issue.

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Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

Ref	Att	Date	Count	Ту	Comment ¹	Dossier Submitter (DS) Response	RAC Rapporteurs	SEAC
			ry/	ре			comments	Rapporteurs
			Organi					comments
			sation/					
			MSCA					
					0.01% (w/w) is 1) being used in			
					mixtures/articles being produced in the EU			
					or 2) contained in mixtures/articles			
					imported from outside the EU, then an			
					enforcement inspector would need to			
					sample the articles and test them. We			
					suggest that specific information about			
					sampling, sample preparation and testing			
					could be contained in the FAQs on the			
					Restriction pages of the ECHA website.			D.L.C.
					E.2 Analytical method: Section E.1.2 of the	For more information on analytical	Availability and	RAC issue.
					Annex XV dossiers states: 'Any limit	methods etc. see revised background	pertinence of the	
					should take into account the ability to	document.	methods to extract and	
					measure the substance in the article matrix		measure phenylmercury	
					(i.e. PU) at these concentrations for		compounds versus	
					enforcement purposes. A limit of 0.01 %		mercury were further discussed with DS and	
					weight by weight (w/w) is proposed'. We suggest it is not clear from the Annex XV			
					dossier whether an analytical method exists		forum. For rapporteurs it seems more	
					for measuring the phenylmercury		appropriate to measure	
					substances in articles at concentrations		mercury content	
					greater than 0.01% (w/w).		because of availability	
							of the method,	
							independency of any	
							breakdown during the	
							process or within the	
							articles, and possibility	

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							to include other mercury compounds used as catalyst.	
					We would also suggest that any analytical method that is developed should be robust and have the capacity to test for the presence of the phenylmercury compounds covered by this restriction. IE suggests that perhaps a way around this issue could be provided by using a single test for either mercury (or organic mercury) as an initial 'screening' test for samples suspected of containing the phenylmercury compounds. A positive test would then indicate the need for further, more time consuming and expensive, sampling and testing for each of the phenylmercury compounds.	Availability of analytical methods to quantify the phenylmercury compounds as such in PU seems not to be adequate for the time being but may be developed in the future. However, analytical methods to quantify Hg in PU are available. If Hg is detected in quantities above the concentration limits, information about whether this relates to the use of the phenylmercury compounds will have to be obtained from the relevant company that will have to present relevant documentation. A new appendix 10 is included with information on analytical methods for measuring mercury in articles, including detection and quantification limits.	If necessary a two steps approach could be put in place: firstly measuring mercury and if concentration is above 0.01% as second step to confirm that some phenylmercury compounds are present. Alternately, the second step could be that the company provides the proof of other sources of mercury in the process.	RAC issue.
					F – Socio-economic assessment of the proposed restriction		/	/
					F.1 Non-mercury PU systems: We suggest that the dossier would have benefited from further information on the economic feasibility of replacing PU systems, so as to	Further information is always good. But we have contacted all identified manufacturers and formulators (i.e. formulator of catalyst) of these	No comment.	This information would indeed have been beneficial but is apparently not

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

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			MSCA		be able to use non-mercury catalysts. The dossier states that there is no indication that non-mercury PU systems cost more or less. Further investigation on this point would have been useful, as we believe the necessity of changing to a non- phenylmercury system may have significant cost implications for the estimated 200-250 mercury containing PU systems in the EU. F.2 Emissions avoided each year: Table E.2 on p.197 illustrates the mercury emissions avoided under option 1 compared to option 2. We suggest it would have been beneficial if the dossier had included a column showing emissions avoided each year under the no-restriction scenario, as we feel this is a key piece of information for assessing the benefits of introducing the restriction.	compounds. They state that they expect that it will be possible to substitute use of phenylmercury within 5 years. The lack of other comments from industry on this point so far indicates support for our finding. The no restriction scenario is the baseline for the calculations. This table shows the emission reduction related to option 1 and 2 in addition to the reductions in the baseline.	Please note that some assumptions about the baseline could be worked out a little differently (e.g. see comment to German MSCA)	available. Information obtained was double checked by the DS and no additional comments have been received during public consultation. Rapporteurs agree with DS response. Agree with DS response.
					F.3 Imported articles containing phenylmercury compounds: We note the lack of data available on the impacts of restricting imported articles containing phenylmercury compounds. Without this information, we suggest it is difficult to understand the degree of possible impacts for distributors, users etc.	There is a general lack of data related to imports of articles in the EU. We agree that this is a problem. It has not been possible for us to solve this problem during this work.	This lack of information should be considered as an additional argument supporting restriction.	Agree that data on imported articles would have been beneficial but could not be obtained. DS highlighted in the dossier that there is a lack of such

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			ry/ Organi	pe			comments	Rapporteurs comments
			sation/ MSCA					
								information and that no solution can be found to address it.
66	N	2010/ 12/20 13:55	/ / United Kingdo m MSCA	(A) (B), (C), (E), (F)	We agree with the broad policy commitment to reduce mercury emissions to the environment, but we are uncertain whether reference to UN activities and the EU mercury strategy is applicable in a REACH context, where controls depend on a specific risk being identified. The dossiers for both phenylmercury compounds and mercury in measuring devices are based on the same generic concern. This is that any release of a mercury compound to the environment will eventually lead to the formation of elemental mercury and methylmercury, which are either SVHCs or an equivalent level of concern, presumably with no thresholds for their effects. By reducing the available mercury pool, the potential for formation of significant quantities of methylmercury is reduced (even if this cannot be quantified as such). It would be helpful if the two dossiers were consistent in the way this generic issue is expressed.	We would like to thank UK for useful comments. We think it is useful to put the proposal in a wider context with reference to EU mercury strategy and UN activities. The demonstration of degradation of the phenylmercury compounds in the environment to elemental/inorganic mercury is an essential part of the work on this restriction proposal.	We agree with UK comments on strategy to demonstrate the concern and the necessity to further clarify it, notably by firstly analysing the European concern and context and separately add some considerations about the global concern and context. RAC's opinion also clearly states that a non-threshold approach is used to demonstrate risk.	Agree with DS on the usefulness of looking at the issue in a wider context by referring to UN and EU mercury strategy. The reference to this wider context strengthens, to some extent, the importance of taking measure to address the risks generated by the five phenylmercury compounds identified.
					From the information in the Annex XV	The information that all uses of the	Our understanding is	This information is

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					dossier it is not clear whether all uses for phenyl mercury catalysts based on these five compounds can be substituted within the proposed 5 year time frame. We consider that the option for authorisation with restrictions for imported articles should have been explored in more detail since this will allow Member States to evaluate uses where substitution cannot be achieved on a case-by-case basis. Alternatively the dossier needs to consider whether there are uses for which derogations would be required. At present there is not enough information to make this judgement.	catalysts can be substituted within 5 years is obtained from consultations with industry, a need for specific derogations after this time frame has not been indicated. During the public consultations by ECHA and consultations that may be undertaken by the Commission there will be new possibilities for industry to provide information if there are uses that would need derogations, such information could be considered in the final framing of the restriction. We think that two parallel processes, one with inclusion into the Candidate list and Annex XIV and subsequent procedures with applications and granting/refusal of Authorisations, in addition to a restriction proposal for imported articles would be very resource demanding.	that according to the consultation made by DS the unique figure is that 70% applications can be substituted within 2-3 years (BD section E.2.2.1.1 "Risk reduction capacity"). Data are NOT sufficient to guarantee that 100% may be substituted after 5 years, and it's NOT possible to say how much more may be substituted if implementation period is prolonged from 3 to 5 years.	based on industry consultation and should be relevant SEAC rapporteurs agree with DS response that elaborating on the one hand an SVHC dossier for the five phenylmercury compounds and on the other hand a restriction dossier only targeted on imported articles might be inefficient and time/resource consuming. Especially as regards the authorisation process, DS provided some justification in section E.1.2. An overview of RMOs is given in section E.1.
					We note that very little information is available on consumer exposure. We	We agree that more information on consumer exposure would be desirable.	As commented earlier it seems an acceptable	Agree with DS response.

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			Organi sation/ MSCA					comments
					consider that the uncertainties in the current consumer exposure assessment are too great to make a robust assessment of risk for this group. Better justification needs to be provided for the assumptions made in the exposure assessment for consumers. Also better information needs to be provided on consumer access to uncured phenyl mercury catalysed products (adhesives and moulding products are identified in the Annex XV dossier as possible sources of consumer exposure) since an exposure assessment based on the release of mercury from cured articles will not be relevant for these uses.	Actual measurements are available only for the use in gym floorings, this use is considered as a potential "worst case" for consumers. An exposure scenario for use in rollers on swivel chairs has been estimated. Consumer exposure from uncured articles like adhesives could be of concern, however, to develop additional scenarios based on model calculations only seems to be of limited utility for the present restriction proposal. Moreover, according to available information the current use in adhesives seems to be small. According to a major supplier of catalysts, elastomers take up about 90% of the market of mercury catalysts while about 10% is used for sealants, while for adhesives and coatings, the mercury use is today small while organotin or amine catalysts are the major catalysts for these applications. Other information indicates that the mercury catalysts are still widely used for coatings.	approach to use the gym flooring data to estimate releases from articles. It should also be kept in mind that PBT properties of degradation products combined with environmental exposures are sufficient to argue in favour of this restriction, and thus that occupational or consumer exposures are here only as additional arguments.	
					Although the main use for these five phenyl mercury compounds appears to be in	Regulation 1223/2009 sets a condition of maximum 0.007 % (of Hg) in eye	It's possible that although listed in the	Agree that the restriction proposal

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			ry/	pe			comments	Rapporteurs
			Organi					comments
			sation/					
			MSCA					
					catalysts for polyurethane systems, we are	cosmetic products. It is recognised that	cosmetic products	might have some
					aware of other current uses e.g. phenyl	the inclusion of manufacture and	regulation,	indirect impacts on
					mercury acetate can be used as a	placing on the market would limit the	phenylmercury	outside-REACH
					preservative in eye cosmetics (see Annex	availability of these phenyl mercury	compounds are not in	areas such as this
					V/17 of regulation EU 1223/2009). The	compounds for these products. Use in	fact used. It can also be	specific use.
					dossier has not explored other uses for these	eye cosmetics has not been indicated by	noticed that no	However, given that
					phenyl mercury compounds in any detail	industry during the consultations and	comments on any	this use is outside the
					nor the impact that the proposal could have	the actual need for use in eye cosmetics	unmentioned uses were	scope of REACH and
					on these uses. This needs to be done in	today, and consequently the	made during the public	of this proposal, a
					order to fully assess this proposal.	implications in this area has not been	consultation.	possible impact can
						investigated further.	•	be recognised but
						The implications of the proposed		SEAC rapporteurs
						restriction for these products has not		have doubts about the
						yet been further analysed.		proportionality of
								further investigations.

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Specific comments

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85	N	2010/12/22 15:53	/ / German y MSCA	(B), (C), (F)	Comment for the German CA:		1	/
					• Section B5.11 (Page 96). From the text it is clear that DNELs are derived. However, the presentation of the data mentions "DNEL/DMEL" in a way that one may think these to be equivalent terms. However, the meaning of these terms is clearly different. So, in our opinion, reference to DMEL is incorrect in this case and may communicate an incorrect message.	So far no apparent threshold has been identified for neurotoxicity in children exposed to me-Hg in utero (Castoldi et al., 2008; Rice 2004). The threshold for neurological effects from mercury vapour has also been questioned recently (Richardson et al., 2009). The application of the concept of DNEL or DMEL for mercury should be discussed by RAC on this background. We have used the concept DNEL.	DMEL clearly is of societal concern and need policy guidance (R.8: Characterisation of dose [concentration]- response for human health, ECHA 2010). It's thus not the rule of one Member-State or of RAC to decide on one specific dossier of these rules that may then have to be applied in other dossiers. RAC stressed in its opinion that the mention of these	RAC issue.

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							values doesn't overcome the non- threshold approach which drives this restriction dossier.	
					• Section B9.3.2.1. (Page 142). In this section it is said that no worker exposure data is available. However, in Section B9.3.2.2.(P. 143) it is said that use of phenylmercury compounds in flooring may be the worst case exposure scenario for consumers. If this is true, should one not expect a high exposure for workers applying these floors (not just one, but continuously)? Even if no detailed data are available, worker exposure may be expected to be relevant. We regret this was not mentioned.	These mercury-catalyzed PU floors were laid in 1960-1980, so we assume that no workers are exposed today during the laying of new floors. However abatement workers and teachers in gymnasiums might be exposed and this is now described in the report.	We agree: as no use as flooring is listed in Europe, there's no need to describe this occupational exposure. Thank you to DS for additional consideration regarding workers in gymnasiums.	Agree with DS response. See new information in the BD.
					• Section C1. Concerning the chapter on alternatives there are some inconsistencies: Organotins are mentioned to be possible alternatives, but are not discussed in any detail later on (the risks concerning organotin compounds are not addressed, etc). Because of the wide spread use of such catalysts in PU curing chemistry, they may deserve a greater attention, including their	Catalysts based on organotin compounds are no longer specifically marketed as alternatives for the current uses of phenylmercury catalysts. Part C is restructured to make the text in each section more consistent. A table comparing available information on health and environmental related properties of phenylmercury	Organotins were mentioned but are within the actual context not substitution candidates. See also previous comment on this issue (Irish MSCA	Agree with DS response. See new information in the BD.

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			sation/					
			MSCA					
					known potential safety problems (e.g.	compounds and alternative substances	comment C1).	
					Dibutlytindilaurate which is toxic by	has been included in section C.4 and		
					inhalation and a suspected endocrine	information on the properties of		
					disruptor). Furthermore, Ti and Zr are at	organotin substances and alos other		
					first not mentioned but later on. Also a final	mercury alternatives is included.		
					comparison would have been helpful.			
					Section F. The following aspects in terms of	See response to the following	SEA issue: No	*
					cost calculations in the socio-economic	comment.	comment.	following comment.
					analysis part should be revised: - calculation			
					of the R&D investments - calculation of			
					avoided emissions - reference to the study			
					of Rice and Hammitt - cost evaluation in the			
					Chapter "Loss of Export Revenue" -			
					calculation referring to one kilogram of			
					mercury			
					Calculation of R&D-Investments The costs	We agree that the R & D costs may be	SEA issue: No	0
					that are connected to the change to mercury	underestimated. However, these are the	comment.	costs might be
					free products are calculated as an R&D	numbers attained from industry and		underestimated but
					Investment. The estimation seems to be too	they have been double checked by an		these figures have
					low. In the cited COWI report, 7-8 weeks	additional consultation during the work		been reported by
					working time of a developer are taken as €	with the SEA, and no indications have		industry. To face this
					10000-15000 (Personal resources+	been given to suggest the numbers are		possibility only the
					Overhead). Simple calculation shows that	too low. As we agree that the estimates		high estimate is used.
					this is very optimistic. This represents about	may be underestimated we have used		
					0,15 ManYear, meaning 1 ManYear would	the high cost estimates only when		
					be € 65000 – 97000. In view of the fact one	revising the document.		
					needs a qualified, experienced chemist this	In calculating costs to be used in		

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			Organi				comments	comments
			sation/					
			MSCA					
					does hardly seem enough to cover salary	investment decisions by private firms a		
					alone (also taking into account social	short payback time would be more		
					insurances, etc). For R&D there are also	correct. However in a socio-economic		
					significant costs for a laboratory	analysis the assessment period would		
					infrastructure that need to be taken into	be the expected economic lifetime of		
					account. The exact amount depends very	the investment.		
					much on the internal accounting rules of a company. Anyhow, one also has to take into			
					account that apart from R&D costs, there			
					will also be costs related to product			
					introduction, like marketing, customer			
					trials, etc. To take the "lifetime" of the			
					"R&D Investment" as 10 years and			
					calculate the corresponding amortisation			
					over these 10 years does not seem correct.			
					Chemical companies would plan und			
					calculate such projects with a very limited			
					pay-back time (2-3 years). Of course the			
					expectation would be that such a system			
					would generate additional profit for a much			
					longer time. In this respect the pay-back			
					time significantly depends on the revenues			
					or the cash flow that are achieved with such			
					a product. Taken an assumed development			
					time of 7-8 weeks for each system, it is to			
					be expected that some alternatives would be			
					marketed and generate revenue much			
					sooner than the 2-3 years mentioned, which			

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

Ref	Att	Date	Count	Ту	Comment	DS Response	RAC	SEAC
			ry/	ре			Rapporteurs	Rapporteurs
			Organi				comments	comments
			sation/					
			MSCA					
					is not reflected in the calculations. Thus an			
					exact economic calculation is not present. In			
					reverse reasoning, a pay-back time of 10 Years/System means that such a system			
					would only yield \in 1000 – 1500 of			
					profit/year. This does not seem to be			
					plausible			
					The calculation of avoided emissions In the	This is amended in the revised	We agree, the	Acknowledged.
					chapter on SEA-Environmental Impacts	document.	chosen timescale	C
					avoided emissions are compared for the first		and other	
					20 years after the restriction. The		parameters of the	
					calculation that forms the basis of this is not		baseline are very	
					shown. Also the basic data are not		important to assess	
					sufficiently presented. So, for large areas		the impacts (in	
					this cannot be checked. The used amount in		terms of emissions	
					the represented timeframe has decreased		for the risk	
					and the prediction for the future strongly		assessment side) of	
					depends on the fact how alternatives will		the different	
					develop in the coming years.		restriction options.	
							Thank you to DS	
					Reference to the study of Rice and Hammitt	The estimates from Rice and Hammit	for amendments. SEA issue: no	Uncertainties are now
					The description of benefit for human health	are only presented as an indicative	comment.	better addressed in
					is not comprehensive enough. Here, only	benchmark, but we see the point of	comment.	the BD.
					the qualitative statement is made that from	discussing the uncertainties and		uic DD.
					the restriction a net-benefit for human	assumptions better and have amended		
					health is to be expected. At the same time,	this accordingly.		

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			Organi				comments	comments
			sation/					
			MSCA					
					one tries to quantify the benefits for human			
					health via the amount of mercury, by			
					referring to the study of Rice and Hammitt			
					(2005). Also here, the basic assumptions			
					that have been used in that study are absent.			
					For example it is not clear how many			
					people will be adversely affected by 1 kg of			
					mercury On top of that, it is not clear if the			
					follow-up cost of an illness (like loss of			
					production, but also changes of quality in			
					life, possible lost years of life or costs for			
					"repairing the environment") are taken into			
					account.			
					Cost calculations in Chapter "Loss of	In our view it is plausible that the	SEA issue: no	Agree with the
					Export Revenue Also in relation to the	production of alternative catalysts will	comment.	comment made by
					"Loss of export revenue", the calculated	replace the production of mercury-		DE. Concerning the
					costs do not seem transparent. For the	containing catalysts in the EU. We		fact that "the cost of
					calculation of socio-economic costs at the	therefore assume that the cost of lost		lost revenue from
					introduction of the restriction, indications	revenue from mercury-containing		mercury-containing
					are made that do not take into account other	catalysts will be offset by increased		catalysts will be
					loss of revenue that originates in the value	revenue from mercury-free catalysts.		offset by increased
					chain because of the restriction. (Suppliers	In terms of lost export we find it more		revenue from
					(sales of raw materials), Labourers (wages),	plausible that this production will be		mercury-free
					state (e.g. tax revenues), etc). On the other	replaced by mercury-containing		catalysts", it may be
					hand it is not clear on which assumptions	catalysts produced outside the EU.		of course a disputable
					the derivation of 50% profit margin is	Therefore we have assumed that there		assumption, such as
					based. On top of that, in the calculation of	will be no increase in the export of		the assumption on the

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			ry/ Organi sation/ MSCA	ре			Rapporteurs comments	Rapporteurs comments
					"Loss of export revenue", future revenues by the sales of alternatives should be taken into account.	alternatives in our calculations. This has been addressed qualitatively when revising the document. Due to no information on the cost structure we have assumed a linear 45 degree marginal cost curve in order to calculate the value added in production for export. This is of course a highly uncertain assumption.		marginal curve. In the SEAC rapporteurs' view, the most important is to be transparent and very clear on the assumptions made (as well as about the weaknesses of calculations and analyses). Some issues have been addressed qualitatively in the revised BD.
					The calculation based on one kilogram of mercury For the estimation of the total benefit it is necessary to compare the total value in \in represented by avoided annual emissions in kg and benchmarks in \in /kg Hg (\notin /kg * total kg, for each option) to the total annual costs by the industry. In the dossier the comparison has been done on the basis of costs per kg of mercury. In our view, such a representation obscures the total costs and is seen as not very helpful. In total, we state that a branch-overview,	In the revised document we will present the net present value of the total cost compared to the total reduction in kg Hg.	SEA issue: no comment.	Agree with DS response.

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Comments and response to comments on Annex XV restriction report on 5 Phenylmercury compounds

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

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			ry/	pe		_	Rapporteurs	Rapporteurs
			Organi	-			comments	comments
			sation/					
			MSCA					
					listing which companies would be			
					concerned by the restriction, would be			
					helpful for the evaluation and to estimate			
					the distributional effects. In terms of safety			
					and health protection of employees, some			
					calculations are not transparent and many			
					aspects are not taken into account. As a			
					consequence this leads to the impression			
					that the estimated costs of the proposed			
					restriction are too low.			
66	Ν	2010/12/20	/ /	(A)			/	/
		13:55	United	(B),				
			Kingdo	(C),				
			m	(D)				
			MSCA	(E),				
				(F)			1	1
					Section A.1.2 Scope of restriction		/	/
					The placing of a limit value for total	The scope of the present restriction	We agree with this	We agree with DS
					mercury would prevent substitution of the	proposal is not limited to specific	UK MSCA	response. The scope
					phenylmercury compounds with other	applications but covers specific	comment: a limit	of the present
					mercury-containing substances, which is	phenylmercury compounds. At this	value for total	restriction proposal is
					logical. However, confusion is caused by	stage the legal aspect of a change in the	mercury would	limited to specific
					referring only to the five phenylmercury compounds. We think it would be better if	scope must be taken into account.	prevent substitution with other mercury	Phenylmercury
					the restriction refers to any mercury		substances. As on a	compounds and not to specific
					compound for use in the specific			to specific applications.
					applications that phenylmercury compounds		legal point of view, RAC cannot	applications.
					applications that phenyimercury compounds		RAC cannot	

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Ref	Att	Date	Count ry/ Organi sation/ MSCA	Ty pe	Comment	DS Response	RAC Rapporteurs comments	SEAC Rapporteurs comments
					are used for. This would then avoid confusion about the need to develop any substance-specific analytical method.		propose a widening of the scope, RAC instead included this issue as an important consideration in their opinion.	
					The limit value proposed for mixtures or articles is 0.01% mercury w/w, although no scientific argument is provided to justify this value. However analysis for mercury content alone would not be sufficient to determine whether the mercury is present as one of the five restricted substances. Analysis for each of the phenyl mercury compounds would be required and this may not be technically feasible.	The wording is amended in order to clarify that the restriction aims to restrict the phenylmercury compounds, however, because of the current inadequacy of analytical methods to quantify the content of the phenylmercury compounds in PU- articles and the possibility that the compounds may be partly degraded in the articles, the concentration limit is proposed to be related to mercury.	See also the proposed 2-step approach discussed for the comment made by Irish MSCA.	The wording has been amended to increase clarity.
					What is the current detection limit for mercury in articles?	See new Appendix 10.	Can be around 10 times lower than the 0.01% proposed in this restriction.	Agree with DS response.
					Section A.2.1 Identified hazard and risk We recommend that this section is re- written and simplified, with references provided as appropriate. At the moment, it	More detailed information on the PBT properties of methylmercury is included in order to substantiate its	/ The risk approach is that there is no safe threshold and	/ RAC issue.

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

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			ry/ Organi sation/	pe			Rapporteurs comments	Rapporteurs comments
			MSCA					
					presents a range of information on problems associated with release of mercury compounds in general. Instead, we think it should concentrate on concisely expressing the identified hazards of elemental mercury and methylmercury, with a justification for their identification as SVHCs (or being of equivalent concern). This is important because the general premise of the proposal appears to be that there is no safe threshold for the observed effects (although we note that the dossier does mention "internationally accepted safe levels of methylmercury" in this section, which is then not referred to later). We understand that the dossier submitter is considering this, and we encourage them to strengthen	hazard and its PBT like properties. It is clarified that there is no safe threshold for effects from methylmercury .	we thus also had encouraged DS to rewrite somewhat this section. This was well done with also the inclusion of additional information; we thus thank DS.	
					the dossier in this regard. Once the SVHC status and relevance of the transformation products has been established, the risk assessment depends solely on the emission pattern of the phenylmercury compounds, in comparison with other sources of mercury. A quantitative risk assessment based on the	We agree that a quantitative risk assessment of PMA is not as relevant as the risk from the transformation products. Therefore the quantitative risk assessment has been moved to appendix I and should be regarded more as supplemental information.	We agree that assessment should rather focus on the emissions of the transformation products. This was done by DS (e.g.	RAC issue.
					properties of the phenylmercury compounds themselves is not relevant in our view,		TableB.60showstheestimated	

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			MSCA					
					because this is not the basis for the concern.		emissions'	
							prediction).	
					The reference to 'wide dispersive' use of the catalysts (p. 10) needs clarification.	The exact number of sites using the catalyst is not known, but the	We agree with DS' arguments:	Agree with DS response. Further, the
					How many sites actually use the catalysts?	information obtained indicates that	1) number of users	estimation of sites is
					Use in industrial settings is not always	formulation probably takes place by 50	on one hand and	given in the dossier
					considered to be a wide dispersive use	to several hundred companies,	significant release	in B.9.5.1.
					pattern. We agree that the use of the final	processing may take place by hundreds	during service life	
					polymers and their presence in consumer	to thousands of companies. We realise	on the other hand	
					products that can be considered as wide	that use in industrial settings is not	are in favour of a	
					dispersive.	always considered as wide dispersive	wide dispersive	
						use. However, according to the draft	use.	
						document from ECHA concerning	2) as far as no	
						"General approach for Prioritisation of	proof is brought	
						Substances of Very High Concern	that professional	
						(SVHC) for inclusion in the List of	uses are not wide	
						Substances subject to Authorisation", it is stated that: "In general, comsumer	dispersive, it should be rather	
						use can be considered as wide-	considered that	
						dispersive if it can be reasonably	exposure can be at	
						assumed that this use result in non-	least similar to the	
						negligible releases. Professional use	ones foreseen for	
						can be wide-dispresive as well if it	consumers.	
						takes place at many sites and is carried		
						out by many workers and if it cannot be		
						excluded that releases are negligible."		
						It seems justified to consider the use of		

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			MSCA					
						the phenylmercury substances as wide- dipersive.		
					Section A2.3 Justification that restriction is the most appropriate option		/	/
					The restriction appears to target up to approximately 4% of known anthropogenic mercury emissions to the environment, which seems relatively low. Based on our following comments, the contribution might even be lower. As mentioned below, authorisation might have been an alternative approach but this does not seem to have been thoroughly considered.	Environmental emissions have been estimated and compared to estimated or reported total emissions from anthropogenic sources, more information in this regard is included. Authorisation as an alternative RMO has been considered in Part E.	In the updated version, it was precised that emissions to air were estimated around 4% of the estimated European emissions of mercury in 2005 and around 7% of the reported emissions to air for EU-27 in 2008. It should be noted that DS clearly stressed that these are only rough estimations that should be used only as an indication. Moreover, as other mercury uses are	Authorisation is indeed examined as an alternative RMO but is considered as less effective and less practical (see Table E.3).

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						decreasing very quickly now, it could be that the phenylmercury contribution may in proportion even increase during the coming years.	
				Section B.1 Identity and physico-chemical properties		/	/
				(p14-24) Very little information is available, even for phenyl mercury acetate, so it is difficult to assess the justification for grouping of these five compounds on the grounds of similar chemical properties. In the table for phenyl mercury acetate there is nothing against flash point, is there information available or not?	Flash point for phenylmercury acetate is included. Aqueous dissociation constants have been estimated for the compounds based on theoretical calculations and are included in the revised document	We found sufficient information for grouping, especially with the added study on degradation in air and water predictions.	RAC issue.
				The dossier does not give validity markings for any of the physico-chemical data, nor robust study summaries. Have original study reports been assessed?	Original study reports have been assessed as far as possible for available literature on phenylmercury compounds. In the conformity check the technical dossier (including RSS) was concluded to be sufficient	Again, based on the study mentioned above + the EPISUITE estimations + some real data notably for phenylmercury- acetate, it seems	RAC issue.

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			ry/ Organi sation/ MSCA	pe			Rapporteurs comments	Rapporteurs comments
							possible to draw the physicochemical properties which are important for this risk assessment.	
					Is the reported vapour pressure for phenylmercury acetate likely to be caused by the substance or an impurity (e.g. acetic acid – we note that no information on impurities is provided)? Is it possible to say something about the likely vapour pressure of the other substances? This information is relevant for considering volatility during different parts of the life cycle.	According to new information three substances manufactured in EU are produced as pure substances (>99% purity). No data are available from manufacturers on any impurities. No data on vapour pressure for the other compounds have been found.	This information would of course be welcomed for reasoning on the life-cycle. Volatility may also come from the metabolites. DS highlighted well the limits of the description of the life-cycle.	RAC issue.
					Section B.1.6 Justification for grouping		/	/
					The grouping approach based on use pattern and structural similarity appears to be acceptable for the purposes of the dossier, but should additional substances be considered? For example, could other phenylmercury carboxylates (e.g. C4- to C7-carboxylates) or arylmercury	The possibility of using other mercury compounds has been further investigated and is now considered under "Alternatives" (part C). At this stage the legal aspect of a change in the scope must be taken into account. Mercury release from use of phenyl	We acknowledge the support for grouping these five substances and the mention of the possible pertinence to extend to other	RAC issue.

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			ry/ Organi sation/ MSCA	pe			Rapporteurs comments	Rapporteurs comments
					compounds be used as alternatives? We understand that the dossier submitter is considering this, and we think it is important for the final decision. Also, other compounds e.g. phenyl mercury nitrate (which is listed as an excipient in currently licensed eye drop formulations and injectable products in the UK at a concentration of up to 0.002%) or phenyl mercury benzoate (listed in EU 1223/2009 as a permitted preservative for eye cosmetics at a concentration of up to 0.007%) also have the potential to contribute to global mercury release.	mercury nitrate in eye drops and phenylmercury benzoate for eye cosmetics is considered to be out of the scope for this assessment.	phenylmercury carboxylates and arylmercury compounds. DS has pointed out that according to their survey and public consultation, this cosmetic application seems not to be used.	
					Section B.2.1 Manufacture and import		/	/
					Only article import is discussed - is it possible that polyurethanes containing these substances are imported for processing? Is all of the polyurethane made using these substances in Europe used there, or is some of it exported? This uncertainty could be reflected in the summary of emissions later.	The import of catalyst formulations containing the substances is indicated to be < 5 tonnes. The information from the consultations has not revealed any import of polyurethane formulations (two component systems) containing these substances for processing in Europe, however, this cannot be excluded. The information obtained concerning export covers export of the substances and of catalyst formulations containing the substances only. These	DS made the improvements in order to underline some uncertainties bound to the small volumes which may be imported in formulations.	Agree with the comment and agree with DS that the uncertainties are now better reflected in the Background Document.

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			Organi sation/ MSCA			comments	comments
					uncertainties are reflected in the text.		
				Editorial: What are the units for Table B.2.1?	Tonnes	More exactly: tpa We added it in BD.	Acknowledged.
				Section B.2.2 Uses		/	
				It would be helpful to briefly indicate how the catalyst works – presumably it is not chemically bound into the polymer matrix? The text gives a maximum concentration of phenylmercury neodecanoate in polymers of 0.6% - presumably this should be 0.8% (given that the upper limit quoted for Thorcat 535 is 78%)?	Some description of how the catalyst works is included. It is not assumed to be chemically bound into the polymer. More information about the chemical form of the catalyst in the finished article is not available, based on well documented elevated levels of mercury vapour in gym floorings it can be assumed that they are (at least partly) converted to elemental mercury, either before or after release from the PU.	DS clarified description of catalyst. It's to note that the behaviour of phenylmercury catalysts during the process and the service-life of articles are unknown and that this is a difficulty in standardising a monitoring method based on phenylmercury compounds.	No further comments.
				The last sentence of the first paragraph on p. 28 says that 71 tonnes of phenylmercury compounds is equivalent to 33 tonnes of mercury. It would be helpful to indicate how this was calculated (we note that the mercury content of the various substances is mentioned in Section B.9.6.1 on p. 155, and	This is corrected and clarified. The amount of 31.3 tonnes mercury (70 *0,447 =31,29), based on the maximum figure of 70 tonnes phenylmercury neodecanoate for use in the EU + EFTA, are used for the calculations of emissions in EU+EFTA. The figure 71	We acknowledge that the estimated mercury content was based on neodecanoate form.	This has been corrected and clarified.

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

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			ry/ Organi	pe			Rapporteurs comments	Rapporteurs comments
			sation/ MSCA					
					a cross-reference could be added). If the vast majority of the phenylmercury is in the form of neodecanoate, then this should be closer to 31.5 tonnes (the correct figure seems to be mentioned in Figure B2.1 – the text and figure need to be consistent). This has minor implications for the subsequent	tonnes phenylmercury compounds and 33 tonnes mercury assumed some use of phenylmercury acetate and phenylmercury ethylhexanoate in EU + EFTA as well. Information about the total European PU market for CASE applications has		
					release estimates. There is no information on the scale of use of the polyurethane made using phenylmercury compounds. Assuming a phenylmercury neodecanoate content in polymers of $0.1 - 0.78\%$ w/w and a total amount of 70 tonnes, this would be equivalent to $9,000 - 70,000$ tonnes of polyurethane as a worst case. It would be helpful to know how this compares with the total European polyurethane market for	not been obtained. Information about the total European PU market for CASE applications has not been obtained.	Rapporteur agree that knowing the total polyurethane use would have been useful especially for understanding how far substitution is already in place or how important the	We agree that this is desirable (but not available) information.
					CASE applications. It might be helpful if ECHA could indicate the registration deadline for these substances, and how many companies have pre-registered them.	A new appendix (9) with information about pre-registrations and envisaged deadlines for the substances have been compiled. For 3 of the substances the envisaged deadline was 2010, however, there are no registrations for the compounds.	waste issue can be. It's to note that if these compounds maybe classified for Reprotoxicity category 2 they should have been registered before 1 st Dec. 2010.	See the new Appendix 9.

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			MSCA					
					Section B.4.1 Degradation		/	/
					We appreciate that most of the studies in this section have been given a validity marking. However, in some case a 'range' is given for a study (e.g. Klimisch code 1-2) – in our view only one marking should be given. Also, occasionally the marking is missing (e.g. Baughman et al., 1973).	We agree that a range of Klimisch codes is unfortunate, but since different people were involved in this report this kind of divergency might appear. Klimisch code for study from Baugman is included.	We found acceptable the use of a Klimisch code range rather than a unique code.	RAC issue.
					Section B4.1.1.1 Hydrolysis		/	/
					The information presented in this section appears to conflict with that given in Section B.4.1.2.1, where it says that the substances easily dissociate in water to form phenylmercury ions. If this is the case, it calls into question the relevance of the log Kow/BCF estimates presented elsewhere in the report.	The section B4.1.1.1 is revised. New information is provided that explains dissociation and hydrolysis of all compounds. Furthermore, dissociation of the compounds is also taken into account when calculating BCFs in the revised version.	We confirm the revision of the BCF calculations.	RAC issue.
					There is an expectation that the other substances will behave similarly to phenylmercury acetate. Presumably the rate of hydrolysis could depend on the water solubility, adsorption potential, etc.? This could be briefly discussed, since it is relevant to the subsequent biodegradation discussion.	This is further discussed based on the new information obtained.	Prediction of degradation pathway is well documented in appendix-12.	RAC issue.
					Section B4.1.1.2.1 Phototransformation in air		/	/

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					Is this a relevant fate process given the vapour pressure of the various substances? Some comment should be added.	The relevance of this fate process is discussed. Additionally, new data on the phototransformation is provided that is based on quantum chemical calculations.	We agree that some differences may occur in the short first period after emission as solubility, vapour pressure and adsorption may be different; however as degradation may occur in a relative short time (usually around 1 day); the fate and behaviour of degradation products will much more drive partition, exposures and finally risks.	RAC issue.
					Section B4.1.1.2.2 Phototransformation in water		1	/
					Given the limited light exposure of substances in freshwater bodies, how relevant is this fate process?	A comment is added to this section dealing with the relevance of this fate process.	Regardingthereversiblepathways,allmovementbetweenenvironmentalcompartmentsare	RAC issue.

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					Section B4.1.2.2 Biodegradation in sediments		possible; so phototransformatio n in water is not a key issue. /	/
					Editorial: The discussion of diphenylmercury bioaccumulation should be moved from this section to Section B4.3.	The discussion of diphenylmercury bioaccumulation is moved to section B 4.3.	We confirm that this was done.	RAC issue.
					Section B4.1.2.3 Biodegradation in soil Is it likely that the different substances will degrade at different rates (e.g. due to differing bioavailability caused by different solubilities and sorption potential)?	The section is revised emphasizing the fact that all phenylmercury compounds are initially transformed to a common degradation product (phenyl mercury hydroxide) that is further degraded. Therefore minor differences in bioavailability are expected.	/ Of course the first fate & behaviour stages may vary among the different phenylmercury compounds, but as degradation may occur relatively quickly, reasoning can focus on metabolites.	/ RAC issue.
					Editorial: There seems to be a word missing in the second sentence "The presence of noticeably concentrations"	The sentence is as follows: "The presence of noticeably concentrations of methylmercury in soil is restricted"	/	Acknowledged.
-					Section B4.1.3 Summary of degradation The second paragraph refers to chemical	The sentence regarding chemical	/	/ RAC issue.

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			sation/					
			MSCA					
					degradation in soils under basic conditions,	degradation in basic soil is not relating		
					but this is not referenced, and there is no	to the remaining content of the		
					discussion of this in the preceding sections	paragraph and is deleted.		
					(presumably it is linked to the brief mention			
					of alkaline hydrolysis in Section B4.1.1.1?). We note there is no mention of formation of	We have included information on the	One knows that	RAC issue.
					mercury sulphide – is this a possible	fate of phenylmercury compounds in	pathways can be	KAC Issue.
					removal process in anaerobic sediments?	landfills in section B.4.1.2.3, the	different according	
					The reported half-lives for biodegradation	formation of mercury sulphide is	to the	
					tend to refer to cultures of mercury tolerant	mentioned. Additionally, the section	environmental	
					micro-organisms: presumably half-lives will	about the biochemical pathway of	conditions and it	
					be longer in more typical environments?	mercury (B.4.1.3) includes information	can thus be	
					Nevertheless, we agree that the ultimate	about the role of mercury sulphide in	supposed that in	
					degradation product will be mercury.	the methylation of mercury.	some cases half-	
							life may be longer.	
							One also considers	
							that the sulphide forms are more	
							stable, however it's	
							stills possible	
							under some	
							conditions (e.g.	
							sediments	
							movements) to	
							observe the return	
							of mercury in the	
							water column. Of	

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							course some refinements may demonstrate that all mercury emissions will not immediately represent exposures, however on a long time scale – which is pertinent for these non degradable substances, it's justified to make estimations based on all mercury content.	
					We realise that the data set is limited, but it is difficult to get a clear picture of the overall levels of the various SVHCs/substances of equivalent concern that may be formed from the release of these substances under normal conditions. Although the fact that they can be formed is a serious concern, and the contribution to the pool of mercury is perhaps the more		This input could be of interest, but should be used very carefully regarding the appropriated long time scale that should be used for assessment (see	RAC issue.

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			Organi			comments	comments
			sation/				
			MSCA				
				relevant factor, we think it is important to		comment just	
				present an analysis (even if only crude) of		above).	
				the likely amounts, if possible. Do any of			
				the existing reviews attempt to estimate the			
				amount of methylmercury present in the environment relative to the total pool of			
				mercury? The Environment Agency in the			
				UK has a report in press that summarises			
				the ratio of mercury to methylmercury			
				concentrations in aquatic systems collected			
				from the literature. We will provide this			
				when it is available since it might provide			
				supporting information.			
				Section B.4.2 Environmental distribution		/	/
				In this and subsequent sections there is no	Study validity in form of Klimish codes	Very well.	RAC issue.
				indication of study validity. This should be	is included for the key studies		
				given for the key studies at least.			
				Section B.4.2.1 Adsorption/desorption		/	/
				Editorial: Presumably the reference to	The text is amended accordingly.	/	Acknowledged.
				methylmercury acetate in seawater (study of			
				Dalland et al., 1986) should be			
				phenylmercury acetate?			
				Section B.4.2.3 Distribution modelling		/	/
				It is usual practice with level III fugacity	We used Kow for phenylmercury	UK MSCA	RAC issue.
				models to model 100% emissions to air,	acetate in the level III fugacity model.	comment is	
				water, land separately, and then all three	Even if the compound dissociates, the	pertinent but DS'	
				equally, otherwise the picture on	log Kow of 0.71 does not seem	choices are	

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			Organi				comments	comments
			sation/					
			MSCA					
					distribution might be misleading. This could	unreasonable. We also think that the	justified as more	
					be done for comparative purposes, although	actual emission that is estimated in the	representative of	
					our query about the relevance of the log	document is a better emission estimate	what could really	
					Kow values might make this less relevant.	than to model 100% emissions to air,	happen.	
						water and land, separately. However,	Rapporteurs agree	
						we have corrected the numbers in the	to keep the choices	
						revised document as we found a	of DS as that.	
						mistake in the model entry.	1	
					Section B.4.2.4 Aquatic bioaccumulation		/	/
					It would be helpful to indicate whether the	The species described in the	We agree that	RAC issue.
					various species listed are invertebrates or	bioaccumulation study by Fang 1973	description of	
					fish. However, in terms of the overall aim of the dossier, information on	are fish, snail and aquatic plants. More	methylmercury	
					of the dossier, information on bioaccumulation of the substances	data on methylmercury are included, among others from the substance data	BCF is important in the context of	
					themselves does not seem to be especially	sheet for mercury for WFD. The WFR	this dossier and	
					relevant. Much more relevant are data on	substance data sheet is assumed to	thus thank DS for	
					mercury and methylmercury, but only very	present a compilation of quality assured	improvements.	
					brief details are provided. Are the cited	data.	improvements.	
					studies reliable? Is there an existing	Gutu.		
					compilation of quality assured data on this			
					substance that could be referenced? For			
					example, later on in Section B8.1.2 there is			
					a mention of fish BCF data for			
					methylmercury from a Water Framework			
					Directive fact sheet, as well as an			
					unreferenced SCHER document. All this			
					information should be in the same section.			

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		MSCA		Editorial: Salmo gairdneri is now Oncorhynchus mykiss. PMA is mentioned as an acronym – is this phenylmercury acetate? There is inconsistent use of this throughout the document.	The text is amended accordingly.	Very well	Acknowledged.
				B.5 (Human health hazard assessment)		/	/
				The toxicity of mercury is pivotal to this dossier and it would be helpful to include a summary of the toxicity of mercury (and methyl mercury) as an introduction to this section.	Such a summary is given in Part A.	We also had requested such data; however we accept now the argument of DS that this information is well accepted and has just to be recalled in section A.	RAC issue.
				Of the five substances, data are only available for phenyl mercury acetate (PMA) and for a number of endpoints the data on this substance are either inadequate or lacking. It is not clear whether the data generated on PMA is to be read-across to the other substances (as appears to be implied in the Justification for Grouping, B.1.6). If read-across is proposed, we feel that a more thorough justification is required.	Text amended.	We confirm improvements by DS.	RAC issue.

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					We note that although data on the Hg- related metabolites/degradation products has been provided, no consideration has been given to the potential toxicity of the side-chains of these substances. For example, if ethylhexanoic acid is formed from phenylmercury 2-ethylhexanoate (a substance with no data to support it) there will be a concern for developmental toxicity. In addition, information on metabolites, etc., has been provided in each section, but no attempt has been made to relate the effects observed in these studies to the likely toxicity of the five substances of interest.	We assume that all the five phenylmercury substances are metabolized into inorganic mercury and organic components. However information on the presence of the side- chains after metabolism and the rate of further metabolism is not available. Hence further speculations on the toxicity from the side-chains would not be recommended. The text in the introduction of B.5 has been revised to relate the effects observed in the available studies to the toxicity of the other phenylmercury substances.	It's true that the side-chain could also be of concern. However, information on the phenylmercury part and its degradation products seems largely sufficient to argue for this restriction. Rapporteurs thus don't think that it's necessary to also assess the potential concern of the side- chain part.	RAC issue.
					As a general comment, for each endpoint, it would be beneficial to the reader if the authors could provide an overall conclusion on the hazard/adequacy of the data. For example, do the data allow a conclusion to be reached on the skin sensitisation potential of PMA. The following specific points are noted: B.5.2.2 (Acute toxicity)	Conclusion inserted.	/	Agree with comment.
					A minor point, in the acute toxicity	Thank you. You are correct. The value	Very well.	RAC issue.

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			MSCA					
					summary you state that the classification is	in the summary is amended		
					based upon an LD50 of 60 mg/kg bw in	accordingly.		
					mice. According to table 5.17, the LD50 for			
					the mouse study was 70 mg/kg bw.			
					B.5.3.1. (Skin irritation)		/	/
					Given that PMA is corrosive, we question	We agree. The two studies have been	Very well.	RAC issue.
					the relevance of including the human	deleted and are vaguely touched upon		
					information in this section, particularly as	in the summary and discussion of		
					the dose levels employed were very low and it is not clear whether the irritation observed	irritation.		
					in the Morris (1960) study was true			
					irritation or sensitisation.			
					B.5.3.2. (Eye irritation)		/	/
					Since the corrosive classification covers	We agree, the text is amended	Very well.	RAC issue.
					both skin and eye irritation, it would be	accordingly.	very wen.	Ri le lissue.
					useful if the reader were referred to the			
					corrosive section.			
					B.5.5.1. (Skin sensitisation)		/	/
					No animal data is available to assess the		/	
					skin sensitisation potential of PMA or any			
					of the other phenyl mercury compounds.			
					Data from human patch tests are available;	We agree. In the summary and	Very well.	RAC issue.
					however, the usefulness of the data is	discussion of this effect, this has now		
					limited. It is unclear whether the responses	been clarified according to the		
					observed were due to irritation or were, in	comment. More information		
					fact, true sensitisation responses. It is also	concerning selection of volunteers has		
					unclear on what basis the volunteers were	been included in the text. Reference		

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

Ref	Att	Date	Count ry/	Ty pe	Comment	DS Response	RAC Rapporteurs	SEAC Rapporteurs
			Organi	r -			comments	comments
			sation/					
			MSCA					
					selected - did they have an underlying skin	and link to the database IVDK is given.		
					response? Lastly, if these reactions are	Cross-reactivity is now included in the		
					sensitisation responses, it is unclear whether	summary and discussion of		
					they are a result of sensitisation to PMA or	sensitisation (B.5.5.3).		
					a similar substance (cross-reactivity).			
					Overall, limited conclusions can be drawn			
					from this information.			
					B.5.6.2.2 (Repeated dose toxicity)		/	/
					Most of the data on the hazards associated	That is correct.	These weaknesses	RAC issue.
					with PMA are taken from poorly reported		should be	
					repeat dose studies, toxicokinetic studies or		discussed a little bit	
					studies investigating the distribution of		by DS, would it be	
					mercury and, therefore, afford limited		only to say that	
					information on the repeat dose toxicity of		these studies are	
					PMA.		provided as a	
							general description	
							and the focus is	
							rather on neuro-	
							developmental effects. We	
							acknowledge the	
							efforts of DS to	
							come back in the	
							study, as also the	
							limits of the study	
							(no histology	
							provided). Let's	

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			ry/ Organi sation/ MSCA	pe			Rapporteurs comments	Rapporteurs comments
							recall again that risks are mainly related to the transformation products mercury and methylmercury.	
					The best information comes from a chronic study. However, it is not clear from the study summary whether the examinations conducted were as extensive as the examinations that would be performed for a guideline study. Please can you provide additional details about the scope of the histological investigations in this study to help assess the robustness of the DNEL.	More information on the histological investigations is included.	Summary description of histological investigations was included.	RAC issue.
					B5.10.1 Neurotoxicity In this section you state that no information is available. However, neurological symptoms were noted in the FAO meeting report No. PL/1965/10/1 WHO/Food Add./27.65 (page 81) and for completeness it would be useful to make some comment about the relevance of this information in the neurotoxicity section.	The text is amended and the original study is now discussed instead of the FAO-report. We question the neurological findings, in line with the authors own uncertainties concerning the findings.	/ We appreciated the effort. In fact there's a link in section B.5.10.1 towards the repeated dose toxicity section where additional description of the neurological effects	/ RAC issue.

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			Organi				comments	comments
			sation/					
			MSCA					
							can be found.	
					B.5.11. (Derivation of DNEL/DMEL)		/	/
					Please check the values that have been	The editorial mistake has been	Very well.	RAC issue.
					applied for absorption and the way they	corrected. The calculations are correct.		
					have been used to calculate the corrected			
					inhalation NOAEC. As the dossier stands,			
					the written form of the equation does not			
					correspond with the figures., i.e. Abs oral			
					rat/Abs inhalation human should be 100/50			
					and not 50/100. If there has been an error			
					this may increase the NOAEC 4-fold,			
					resulting in a higher NOAEC for PMA than			
					mercury and methyl mercury.		1	1
					Exposure estimation	W/		/ Agree with DS
					B.9.3.2 (p 142) – Very little information is	We agree that exposure from consumer	Our comment is	
					available on human exposure to mercury as	use of uncured products may be	similar to the one made about this	response (+ see other
					a result of the use of phenyl mercury catalysts. The examples that have been	different. See response to general comments above. Consumer exposure	issue raised also by	DS responses above on the same issue).
					provided consider exposure to mercury	from uncured articles like adhesives	the UK MSCA but	on the same issue).
					volatilised from gym flooring (this is the	could be of concern, however, to	for section A. We	
					only scenario for which measured data are	develop additional scenarios based on	agree with DS that	
					available) and from castors on chairs. The	model calculations only seems to be of	this additional	
					dossier does not properly consider how	limited utility for the present restriction	work may not be	
					representative these sources of exposure are	proposal.	necessary to argue	
					for other sources e.g. other article types and		this proposal.	
					whether these exposure assessments reflect			
					worst case or typical conditions. Also on			

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			ry/	pe			Rapporteurs	Rapporteurs
			Organi				comments	comments
			sation/					
			MSCA					
					p145 the dossier states that consumers may			
					use adhesives or moulding products			
					containing phenyl mercury. It is likely that			
					the exposures from the use of uncured			
					products will be very different to the			
					exposures received from hardened articles			
					and the exposure values that have been			
					reported in the Annex XV dossier will not			
					be appropriate for use of uncured products.			
					P143 – Although the data on exposure to	It is true that most of the sampling has	We acknowledge	RAC issue.
					elemental mercury released from	been done with Lumex instruments	the limits of	
					polyurethane flooring is the only measured	which can only give an understanding	mercury emission	
					data available, the relevance of this		estimations from	
					information needs to be evaluated. For	snapshot-in-time. The limitations of	flooring (case does	
					example, the ambient mercury	this method are described further in the	not exist in Europe,	
					concentrations are spot samples not time	report. Beaulieu et al. (2008) reports	measurements were	
					weighted averages for personal exposure	mercury sampled by Lumex (average	made late in	
					and the variations in concentrations reported	~0.51 microgram/m3)as well as by	service-life, some	
					in the ATSDR 2006 and 2008 papers	NIOSH 6009 method (average ~0.20	measurements are	
					represent samples taken in different	microgram/m3, ~8 hours).	punctual);	
					locations and under different circumstances.		however these	
					In both reports, the highest values were		estimations maybe	
					measured under conditions of limited		sufficient to alert	
					ventilation. The assessment has not		about other	
					considered the evidence in ATSDR 2008		potential exposures	
					for a temperature dependence on release. It		than via food.	
					is therefore difficult to relate these values to			

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			ry/ Organi sation/	ре			Rapporteurs comments	Rapporteurs comments
			MSCA					
					the typical or even worst case exposures			
					that an individual using or working in the gym may experience.			
					In the risk characterisation for exposure to	We are concerned about the children	Very well.	RAC issue.
					elemental mercury from gym flooring on	and students as well as the teachers.	very wen.	KAC Issue.
					p259 the exposure values based on spot	The 24 hours DNEL is now commented		
					samples are compared to a DNEL adjusted	on in the text. A DNEL for workers is		
					from occupational data to represent 24 hour	now derived. Both the highest and the		
					exposure, 7 days per week. This is an	lowest measured values have been used		
					inappropriate DNEL to use for this	in the calculations. This is now made		
					exposure situation. The worst case exposure	clear by editorial changes.		
					situation is for a gym instructor who may			
					spend 8 hours per day at work and therefore			
					it would seem more appropriate to use a			
					worker DNEL for this risk characterisation.			
					We note an inconsistency in the dossier here			
					where the first paragraph on p259 indicates			
					that the highest measured value will be used			
					but in fact the calculation is based on the			
					lowest measured value.	As should stated in the non-out the helf	DS' approach	Agree with DS
					Additional exposure calculations based on the release of phenyl mercury from castors	As already stated in the report the half life for mercury from the PU floorings	DS' approach seems realistic	Agree with DS response. The values
					are presented in Appendix 1 p256-258. In	has been estimated to be 16 years	regarding the	taken for the
					the refined calculation, it is assumed that all	(ATSDR, 2008). Therefore, it is likely	timescale and the	calculation of
					of the phenyl mercury content in the castors	that the assumption of 15 years for	room size, and also	exposure assessment
					is released over a 15 or 30 year period but	release of all the PMA is an	the fact that	are extracted from
					there is no evidence to indicate that this	overestimation of the exposure	multiple sources	EU guidelines and

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			Organi				comments	comments
			sation/					
			MSCA					
					level of emission will occur in practice. If	compared with in real life. Because of	may be present at	can thus be
					the majority of the phenyl mercury remains encapsulated in the article this assumption	this we also estimated RCR when the emission time was 30 years. The	the same time.	considered as relevant.
					will result in an unrealistically high	default size of the sleeping room is		Televalit.
					exposure assessment. The calculations are	taken from the guidance document on		
					based on a 16 m3 room with 24-hour	consumer exposure Table R.15.17/		
					exposure. This represents an extreme worst	Consexpo fact sheet (Bremmer et al.,		
					case situation. It would be helpful to	2006).		
					consider typical exposure as well. Also, it is			
					not clear if the values calculated for castors			
					are representative for other article types.			
					Additional justification for the assumptions			
					in the dossier would be helpful.			
					Given the lack of data on consumer	The mentioned release rate refers to a	We support DS'	Agree with comment
					exposure it is challenging to make a robust assessment of the risks to consumers and it	calculation in a single gymnasium in Minnesota and is a theoretical	approach. Elsewhere we	and DS' response.
					may be better to focus on risk to the	calculation based on the values	Elsewhere we acknowledge here	
					environment instead. We note that the	measured with the Lumex Mercury	the UK MSCA	
					ATSDR (2008) report determined a rate of	Analyzer, the area of the gym and the	conclusion that	
					release of elemental mercury from a 24 year	ventilation rates of the fans in that	focus should be	
					old polyurethane floor at around 24 °C of	gymnasium. We believe that it is more	made on risk to the	
					17.4 ng/ft2/min (11.2 micrograms/m2/hr). It	rational to use the measured values	environment (and	
					may be possible to use this rate of release as	directly, and give more information on	probably also	
					an alternative basis to determine potential	conditions. This is included in the	human via the	
					exposures from phenyl mercury in	revised report.	environment).	
					polyurethane flooring.			
					B.9.3.2.3 (p146) – We agree that it is not	More information is included.	We confirm	Acknowledged.

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			ry/	pe			Rapporteurs	Rapporteurs
			Organi				comments	comments
			sation/					
			MSCA					
					possible to carry out a quantitative risk	Comparison with reported total air	addition of further	
					assessment of indirect exposure via the	emissions from anthropogenic sources	discussions about	
					environment. Is it possible to provide	in EU-27 for 2008 (and 2005) is now	this contribution to	
					supporting evidence for the statement that	included in the revised report.	global air	
					4% of EU mercury emissions arise from		emissions.	
					these 5 phenyl mercury compounds?			
					B.9.3.2.4 (p148) – Please clarify which life	This is clarified in the revised report.	We also had some	Please see response
					cycle stage is covered by "formulation" in	The apparent inconsistency is due to	difficulties with	by DS.
					the first paragraph on this page. The number	the fact that there are two formulation	these two types of	
					of entities engaged in formulation is not	steps, the manufacture of the catalyst	formulators which	
					consistent with the number of formulators	(the substances are formulated into	were not separated	
					given in earlier sections.	catalysts by the manufacturers	in all calculations	
						manufacturing the substances) and the	through the report.	
						manufacture of the PUR elastomer	Thanks to DS for	
						system.	improvements.	
					B.10 (p165) – Given that there is no	A further refinement is considered to be	We acknowledge	Agree with DS
					information on the time course of release of	of limited utility for the present	the uncertainties of	response.
					phenyl mercury compounds from articles	restriction proposal. (The main basis	consumer exposure	
					and it is not clear whether phenyl mercury	for this restriction proposal concern the	estimations but	
					compounds convert to elemental mercury	transformation products of	consider	
					prior to volatilising from articles (see p140)	phenylmercury substances). The	information	
					there is considerable uncertainty in the	uncertainties are stated in the revised	sufficient as	
					consumer exposure calculations that have	report.	consumers'	
					been performed. This is compounded by the		exposures from	
					uncertainties due to the assumptions that		articles are only a	
					have been made in order to perform a		secondary	
					quantitative risk characterisation. The		argument.	

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			Organi	pe			comments	comments
			sation/					
			MSCA					
					calculations that have been made seem to			
					represent worst case situations and it would			
					be useful to conduct a risk characterisation			
					based on typical values to put these worst			
					case values into context. It would be useful			
					to state the uncertainties associated with the			
					exposure assessment in the risk			
					characterisation.			
					B.10.1.3 - The risk characterisation for man	It is clarified in the revised report that	Very well.	RAC issue.
					via the environment has been based on	methylmercury may be generated from		
					consumption of fish contaminated by	other sources than phenylmercury		
					methyl mercury. There needs to be a clear	compounds.		
					reference in the dossier that methyl mercury			
					is obtainable from several sources so the			
					stated risk is not totally due to phenyl			
					mercury acetate.			
					Section B6 – Human health hazard	You are correct. The text is amended	Very well.	RAC issue.
					assessment of physico-chemical properties	accordingly.		
					(p 100). Statements that the substances are			
					not explosive, flammable or have no			
					oxidising properties cannot be made given			
					that in B1 it is stated that no data were			
					available for these endpoints.			
					Section B.7 Environmental hazard		/	/
					assessment			
					In our view, the risks that form the basis for	The environmental hazard assessment	We agree that	RAC issue.
					this restriction proposal concern the	of the phenylmercury substances is	PNECs and other	

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					transformation products of phenylmercury substances. Therefore the ecotoxicity data (and PNECs) for the substances themselves are not relevant, and distract from the main argument. We have therefore not reviewed these data, and would prefer to just see a summary of (validated) data for mercury and methyl mercury in this section.	included in the main document of the revised report since these data are of relevance for the PBT assessment of the phenylmercury substances itself.	characteristics of the main transformation products, mercury and methylmercury are central in this assessment.	
					Section B.8 PBT assessment		/	/
					Similar to the last section, we think that the primary focus of this section should be the transformation products. It seems clear that (subject to some text clarifications as indicated in our preceding comments) methylmercury should be considered to be very bioaccumulative and also highly toxic (the avian data should also be mentioned in this context). In fact, the human health classification seems to provide a solid basis for identification as an SVHC, regardless of the discussion of persistence.	We agree that the PBT assessment should mainly focus on the transformation products of the phenylmercury substances. The PBT assessment of the phenylmercuy compounds is done for sake of completeness.	We would have wished more discussion on why the authorisation route was rejected. We confirm substantial improvements in the PBT properties discussions.	RAC issue.
					In terms of persistence, we are sympathetic towards the case presented, which is based on the differing rates of methylation and demethylation – however, the dossier does not present any detailed data on these aspects so it is difficult to make any	We have elaborated more on the PBT like properties of methylmercury. In addition monitoring studies are added demonstrating increasing trends of mercury levels in biota, which are of concern.	Our conclusion is also that there's an equivalent concern to a PBT substance and thus that no- threshold should be	RAC issue.

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			ry/	pe			Rapporteurs	Rapporteurs
			Organi				comments	comments
			sation/					
			MSCA					
					judgment about this issue. We think this		foreseen. This is all	
					should be discussed more explicitly. In		the more a strong	
					addition, evidence from monitoring studies		argument as the	
					(currently summarised in Section B.9.7)		cycling of mercury	
					should be mentioned, together with an		means that these	
					argument based on the fact that the cycling		transformation	
					of mercury means that the source of this		products are	
					transformation product is always present		always present	
					once released. Given the high accumulation		once released.	
					and toxicity, we think this would provide a			
					very good argument for 'equivalent			
					concern' to a PBT substance, and therefore			
					non-threshold effect, which then forms the			
					basis for the restriction. We do note,			
					however, that the dossier mentions			
					"internationally accepted safe levels of			
					methylmercury" in the opening section.			
					This should be briefly discussed here in our			
					view.		X X7 .1 .	PAC:
					We have some concerns about the lack of	Additional information is provided in	We agree that	RAC issue.
					quantification of the overall level of	the paragraph "The biogeochemical	discussion about	
					formation of SVHCs from release of the	pathway of mercury" in section B.4.1.3.	methylmercury to	
					phenylmercury substances, though we also	Generally, about 1-1.5% of the mercury	mercury ratio could	
					recognise the difficulties. The restriction is	in anaerobic sediments is	be of interest.	
					based on a presumption of harm, even though the actual amounts of relevant	methylmercury.	However, as stated	
					though the actual amounts of relevant	It is recognised that REACH allows the	in our previous	
					transformation products might be very small	emissions of PBT substances provided	comments, this	

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

Ref	Att	Date	Count	Ту	Comment	DS Response	RAC	SEAC
			ry/	pe			Rapporteurs	Rapporteurs
			Organi				comments	comments
			sation/					
			MSCA					
					indeed. REACH allows the emissions of	they are below a minimal level, this is	approach should be	
					PBT substances provided they are below a	discussed in the report (B.8.2).	used carefully as	
					minimal level. This is an important	Consideration of the total volume and	transfer notably in	
					principle for all substances in which	the fact that the use is wide dispersive	the food chain	
					transformation to PBT substances is the key	is of relevance as well when	makes these	
					issue, and if not addressed, might form the	considering the need for legal action.	environmental	
					basis for a legal challenge from the affected	The environmental degradation of the	levels not really	
					industry. The Environment Agency has a	substances to inorganic mercury is	representative of	
					report in press that summarises the ratio of	further substantiated in the revised	risks.	
					mercury to methylmercury concentrations	version (on a theoretical basis). More		
					in aquatic systems collected from the	information concerning the ratio of		
					literature. We will provide this when it is	mercury to methylmercury would be of interest. Quantification would probably		
					available since it might provide supporting information.	also require more detailed information		
					intormation.	on possible regional-specific		
						differences in the use and releases.		
					Section B.8.2 Emission characterisation	differences in the use and releases.	/	
					As a general remark, there appear to be	This is discussed further in B.9.5.2	Thank you to DS	RAC issue.
					major uncertainties in the exposure	(releases from service life)	for this additional	
					estimates, not least the unclear		work.	
					leaching/volatilisation potential of			
					phenylmercury compounds from different			
					types of polyurethane articles. This			
					uncertainty is not discussed in the document			
					at all.			
					Section B.9.1 Exposure assessment		/	/
					Table B9.1: Why is there no ERC number	See response to UK general comment	We agree that some	Agree with DS

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			Organi				comments	comments
			sation/					
			MSCA					
					for use of PU adhesives, sealants and	on the same issue:	clarifications about	response + see other
					elastomers in industrial settings? Is there	We agree that more information on	the 10%	DS responses above
					any way of estimating a split between		applications that	on the same issue.
					indoor and outdoor uses? Would different	Actual measurements are available only	are not for PU	
					release factors be likely? We hope that	for the use in gym floorings, this use is	systems would be	
					better information will be provided by	considered as a potential "worst case"	nice; but as we said	
					industry during the public consultation.	for consumers. An exposure scenario for use in rollers on swivel chairs has	previously it seems	
						been estimated. Consumer exposure	acceptable to deal only with the gym	
						from uncured articles like adhesives	flooring data.	
						could be of concern, however, to	moornig uata.	
						develop additional scenarios based on		
						model calculations only seems to be of		
						limited utility for the present restriction		
						proposal. Moreover, according to		
						available information the current use in		
						adhesives seems to be small. According		
						to a major supplier of catalysts,		
						elastomers take up about 90% of the		
						market of mercury catalysts while		
						about 10% is used for sealants, while		
						for adhesives and coatings, the		
						mercury use is today small while		
						organotin or amine catalysts are the		
						major catalysts for these applications.		
						Other information indicates that the		
						mercury catalysts are still widely used		
						for coatings.		

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					Editorial: Chemical forms released from articles (p. 143): the word "Lumex" is not explained at this point in the document. Section B.9.2 Manufacturing There is no discussion of the efficiency or appropriateness of the abatement measures in place at the main site. What happens to the captured mercury? In addition, no release information has been provided by two of the three EU manufacturers, so the representivity of the reported data is unknown. Are the risk management measures in place at the main site likely to be standard within the industry? Perhaps the national competent authorities might be contacted to assist in the data gathering process for those companies that did not respond?	Thank you, the text is amended accordingly. More information from industry is included in the report. The representativeness of the information is further clarified, see table G.1.	Very well. / We are also not totally convinced by such very low release factors. Our concern is for example on the few monitoring data and the absence of a mass balance approach; we thus have proposed an adjustment. See also our comments on B3 and D2 Irish MSCA comments.	RAC issue. / This information is indeed desirable. Please see response from DS.
					The maximum air emission estimate of 0.3 kg/year for the whole of Europe appears to be a mistake: 0.0016% of 120 tonnes is 1.92 kg. The amount per site will of course be lower.	Thank you for the control calculation, the value is corrected accordingly	Very well	Correction has been made.
					Is the 'total mercury' concentration in the wastewater a mean or maximum value? What sort of 'treatment' is in place at the	The total mercury concentration in waste water is a single measured value, which is representative for	Our position is similar as for the previous comment	RAC issue.

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					major site before discharge – could it be improved?	measurements in 2008 according to the manufacturers. No further information on waste water treatment before discharge is available	and we have proposed also here an adjustment.	
					It is not clear whether the formulation of catalysts takes place at a separate location from the substance manufacturing site – could this be confirmed? This stage of the life cycle appears to be missing from the release estimates.	More information from industry is included in the report.	It's to note regarding the low number of manufacturers, that information was considered as confidential.	Acknowledged.
					Section B.9.3.1 General information on use as a catalyst in PU elastomer systems		/	
					The percentage content of the substances in two-component systems (0.2-0.8%) appears to be different from that reported in Section B2.2 on p. 27 (0.1-0.6%).	A percentage in the order of 0.1-0.6% is taken to be a typical concentration range in the polyurethane material in finished articles. The concentration range may also be wider, cf. revised report Section B.2.2	We observed that the range was modified into 0.1- 0.6 in B.9.3.1. A discussion about the 0.8% would however have been welcomed as it could better reflect the concentration in known products.	Acknowledged.
					Section B.9.3.2.2 Consumer exposure		/	
					Editorial: The discussion of some types of article being considered hazardous waste	The statement regarding hazardous waste refers to the USA (ref. MPCA,	It's in section B.9.5.3.	Acknowledged.

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		ry/ Organi sation/ MSCA	pe			Rapporteurs comments	Rapporteurs comments
				requires some context – are the same criteria applied in the EU as in the USA? (Also mentioned in other sections, e.g. B.9.4.)	2008). The classification of the material with regard to EU hazardous waste criteria is discussed in section B.9.5.3, in the paragraph with the heading; "Hazardous waste incineration and landfilling".		
				Are the same types of flooring used in the EU as those in the US studies?	No information on current use of phenylmercury in flooring in Europe has been obtained during this study (B.9.3.2.2), but information on possible former use has been indicated and the text is thus amended. As proposed in the evaluation of the EU mercury strategy, a potential action to protect against human exposure to mercury via products is to investigate whether mercury containing PU has been used in public buildings in the member states and identify if there is a risk of adverse health effects from old floors. This is not within the scope of the restriction proposal. According to a company consulted by personal communication mercury-containing PU floors were produced in Europe and exported, but it is also possible that it was marketed in Europe. This could not be confirmed,	Very well.	Acknowledged.

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			ry/	pe	-	Rapporteurs	Rapporteurs
			Organi			comments	comments
			sation/				
			MSCA				
					however.		
				Section B.9.2.3 Indirect exposure of		/	/
				humans via the environment			
				Most of this section discusses overall	Agree, most of this section is moved to	Increase in	RAC issue.
				intakes of methylmercury from all sources.	Appendix 1, since there are several	mercury found in	
				It is perhaps therefore better presented as an	sources for Hg-emissions and this text	fish is a complex	
				annex, since it is not related solely to the	is therefore not only related to the	issue, for example	
				substances under consideration. In addition,	substances under consideration.	the digging of	
				we note that the levels of mercury in	Some possible explanations for the	sediments can	
				Norwegian fish appear to be increasing,	increase in fish in Norway and Sweden	remobilize old	
				while the use of these substances is	are discussed in the relevant	sources of mercury.	
				declining. This would suggest that there are	publications, see Appendix 8, "Mercury	This information	
				other much more important sources of	monitoring data". For instance in the	only means that	
				mercury, and this restriction may make little overall difference to the reduction of risk.	publication of Åkerblom and	any source of	
				There could be some discussion of this. If	Johansson, 2008, it is stated that "although the atmospheric depositions"	mercury is to be reduced. We	
				these substances are only contributing about	has declined, the depositions are still	acknowledge the	
				4% (which might be an over-estimate – see	high and they contribute to a slowly	move into	
				comments below), then the 'added risk'	increasing level in soil. This in turn	Appendix 1.	
				from their contribution might be very small.	implies an increasing run-off and load	Appendix 1.	
				from their contribution might be very small.	on aquatic systems. Climate changes		
					might also be a contributing factor".		
					According to Fjeld and Rognerud		
					(2009b) "factors stimulating the		
					mercury methylation, such as a warmer		
					and wetter climate and also forestry and		
					lumbering, may have contributed to the		

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					Section B.9.3.2.4 Environmental release General remarks: The exposure assessment relies on default release estimates based on the TGD, plus (for service life) a read across from reported emissions of mercury from flooring containing phenylmercury acetate. It is therefore likely to represent a worst case, which might not in fact be	observed increase. The influence of these factors is now further investigated." The contribution to the total mercury emissions from the phenylmercury compounds and the different release factor used for release estimates are further discussed in the revised report. The choice of the release factors are further discussed and justified in the revised report. Consultations with industry have been performed three times during the production of the dossier (see part G updated).	/ Overestimations linked to default values or/and consideration of whole mercury amounts can be considered as	RAC issue.
					realistic. We understand that the timing of the production of the dossier has probably not allowed any satisfactory consultation with the relevant industry sectors (also implied by the limited response rate in Section G), but this is an uncertainty that should be reflected in the conclusions.	uputted).	balanced by the long life of the transformation products that make difficult to predict emissions, as it appears with this surprising increase in mercury in fish caught in Nordic European	

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			Organi				comments	comments
			sation/					
			MSCA				countries.	
					Since the polyurethane made using these	The only information obtained is that	As stated before.	RAC issue.
					substances is also used for various coatings,	elastomers today take up about 90% of	the PU system	KAC ISSUE.
					adhesives and sealants, the dossier could	the market of mercury catalysts and	assessment seems	
					have used more specific ESDs that are	about 10% is used for sealants, while	sufficient to	
					available for these sectors from the OECD	for adhesives and coatings the mercury	demonstrate the	
					(http://www.oecd.org/officialdocuments/dis	use is small, on the other hand other	restriction need.	
					playdocumentpdf?cote=ENV/JM/MONO(2	information indicates that the mercury	We confirm the	
					009)24&doclanguage=en and	catalysts are still widely used for	improvements by	
					http://www.oecd.org/officialdocuments/disp	coatings.	DS about	
					laydocumentpdf?cote=ENV/JM/MONO(20	The use of the TGD defaults compared	discussions on	
					09)3&doclanguage=en). These	to the OECD ESDs is further discussed	release factors.	
					documents emphasise the relevance of	in the revised document.		
					volatility for estimating releases, but there is			
					little information on this property for these			
					substances.			
					Formulation of PU systems		/	
					The dossier compares the EUSES defaults	This is further discussed in the revised	Very well.	RAC issue.
					with the plastic additive ESD defaults. The	document. Based on the new		
					ESD was developed using industry-specific	information obtained it does not seem		
					knowledge, and in our view is the more	justified to use the ESD.		
					reliable source for estimates from this			
					sector.			
					It is assumed that 33 tonnes/year [in our	Calculations have been corrected.	Assumptions	RAC issue.
					view, 31.5 tonnes] of mercury are used for	Concerning the mercury catalysts it	should not be with	
					this life cycle stage as a worst case. The	might be correct that they are	too much optimism	
					estimated release of 2.4 tonnes to air	decomposed, however the	because OC are	

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			Organi				comments	comments
			sation/					
			MSCA					
					represents a 7% loss, which seems high.	decomposition products would be other	insufficiently	
					The releases might well be substantially	mercury compounds or elemental	described. In	
					over-estimated – for example, air emissions	mercury, and these might be released	addition some	
					drop to 1.65 kg if the plastic additive ESD	into the environment. Furthermore, the	figures could even	
					releases are used (and releases to waste	assumption that processing of PU	be lowered. The	
					water drop from 100 kg to 1.98 kg).	typically takes place in totally enclosed	problem would	
					According to this ESD, there are zero	systems cannot be concluded based on	then be transferred	
					releases during polyurethane conversion	the information obtained from industry.	to waste and here	
					(processing) not only because the curing	In small-scale production the	the release may be	
					agent is destroyed, but also because this	application of Hg-containing catalysts	underestimated	
					stage is generally assumed to take place in	either takes place in a well-ventilated area or under a fume hood. Some of the	regarding the	
					an almost completely enclosed system.		diversity which is hidden behind	
						users of the PU systems state that they store and react them in dedicated	landfilling. So	
						rooms, fume cupboards and glove-	overall, and except	
						boxes and that containment and	for manufacture for	
						removal of the isocyanate vapour	which we even	
						would do likewise for any mercury	propose a slight	
						vapour. According to the information	increase of the	
						obtained exhaust systems are not	release factors to	
						equipped with specific mercury filters.	air and water, we	
						It must therefore be expected that the	are supporting DS	
						major part of mercury released from the	approach.	
						process is released to the surroundings	**	
						by the ventilation air. No information		
						about use of exhaust abatement systems		
						from large-scale processing has been		
						provided by industry.		

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			ry/ Organi	ре			Rapporteurs comments	Rapporteurs comments
			sation/				comments	comments
			MSCA					
					The relationship between risk management	See response above. A comparison with	For such low	RAC issue.
					measures and the default release estimates	the chemical intermediate does not	concentrations in	
					is unknown, but might a processing site put	seem justified.	process specific	
					additional RMM in place if it handles		RMMs were	
					mercury-containing compounds (given their		probably not put in	
					hazard classification)? We note that there is		place.	
					an Existing Substances Regulation Risk			
					Assessment Report (RAR) for			
					methylenediphenyl diisocyanate (CAS no.			
					26447-40-5), which is also used to make			
					polyurethanes for CASE applications.			
					Based on data provided by the relevant			
					industry groups, the maximum air emission			
					for polymer processing operations was 12			
					kg per kilotonne processed (i.e. a factor of			
					1.2 x 10-5); release factors to wastewater			
					were zero. Whilst this substance is a			
					chemical intermediate and reacts during the			
					polymerisation process, might there be a			
					higher level of emission control than the			
					TGD defaults suggest?		We are in famous of	DAC
					In the absence of specific information for	We agree that the emissions mainly	We are in favour of	RAC issue.
					CASE applications, we recognise that it is difficult to establish the releases from	based on TGD defaults may be considered as conservative.	DS choice to keep the default values if	
						considered as conservative.		
					specific processing operations, but we think it is appropriate to consider that emissions		no data are available.	
							available.	
					may be lower than presented in the dossier.			

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			ry/	pe			Rapporteurs	Rapporteurs
			Organi				comments	comments
			sation/					
			MSCA				1	
					Releases during service life			A
					We recognise that the basis for the release	This is reflected in the revised	We confirm that	Agree with comment.
					estimates for this stage in the life cycle is	document.	discussions on	
					highly uncertain, but we think the document		uncertainties of	
					should reflect this uncertainty more.		service-life	
							emissions'	
							estimations were	
							included by DS.	2.0
					The opening paragraphs refer to the	The calculations of emissions arriving	We agree that	RAC issue.
					importance of wear and tear as a factor in	at the figure 8% are deleted. More	surface area to	
					emissions. However, if the substances are	information about release rates from	volume ratio,	
					behaving like a typical polymer additive,	old floorings and estimated half-life of	volatility, solubility	
					additional factors that might govern releases	phenylmercury compounds in flooring	in the polymer and	
					from polymer articles include surface area	has been found (ATSDR, 2008) and	migration potential	
					to volume ratio, volatility, solubility in the	this is included in the revised	may influence a lot	
					polymer and migration potential. It is not	document. Additional factors governing	the emission to air	
					clear how the emissions of around 8% from	the release are discussed.	estimations, but it	
					flooring for one of the substances compare		cannot be predicted	
					to other article/substance combinations, but		at this point if it's	
					it is presumably one of the worst case		toward increase or	
					scenarios. The subsequent assumption of a		a decrease of the	
					9-10% release to air from all articles might		estimation figures.	
					therefore be a significant overestimate. It			
					might have been possible to do some further			
					analysis of this (see for example the EU			
					RARs for tris(chloropropyl)phosphate,			
					medium chain chlorinated paraffins and			

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Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

Ref	Att	Date	Count ry/ Organi	Ty pe	Comment	DS Response	RAC Rapporteurs comments	SEAC Rapporteurs comments
			sation/ MSCA					
					decabromodiphenyl ether).			
					We note that there is no comparison of the properties of the phenylmercury substances with DEHP. It is therefore unclear how appropriate the comparison is for losses to waste water. The presumption of 'typical' releases of 0.5 - 5% (the top of this range is higher than the loss of 3% assumed for DEHP), averaged to 1% for all article types, appears to be purely speculative. Again, we believe the uncertainty in the reported releases needs to be more clearly expressed in the final summary of emissions.	Some more information about release of Hg from articles is included, however, we agree that there are uncertainties.	Very well. It's to note that we don't have enough information about similarities between DEHP and phenylmercury compounds, notably on how they are bound with the matrix, to use the first as a reference.	RAC issue.
					Editorial: What is the substance mentioned as being released from 3M Tartan Brand flooring under "releases to waste water"?	The measurements concern leachable mercury (ATSDR, 2003), this is clarified in the revised document	Very well.	This has been clarified.
					Section B.9.4 Waste handling		/	
					Due to the calculation method for losses presented in the preceding sections, it is assumed that 28 tonnes of mercury enters the waste stream in discarded articles. Based on our comments, it could be more than this. If the releases from other parts of the life cycle are reviewed as we suggest, it seems that the releases arising from the	Uncertainties in the releases, in particular from landfills, are further discussed. The effectiveness of the waste legislation in controlling the risks is discussed in part E.	We agree - and told it earlier – the releases from the waste stage seem the important part. However, it shouldn't be considered that the	RAC issue.

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			Organi				comments	comments
			sation/					
			MSCA					
					waste disposal stage might make a		waste legislation	
					significant contribution to the overall		guarantees no	
					emissions of mercury from the use of these		emissions as after	
					substances. At the same time there is		incineration almost	
					legislation in place to control mercury		all mercury will be	
					emissions from this part of the life cycle.		found in solid	
					We are unsure whether this aspect has been		waste which is not	
					discussed sufficiently in this document, i.e.		systematically	
					why does the current legislation not provide		handled as	
					a sufficient framework for controlling the		hazardous waste	
					risks from waste?		This is all the more	
							the case as	
							concentrations are	
							low and in very	
							various articles.	
					Recycling: it would be helpful to discuss	Such information has not been	See comment	No further comments.
					what air pollution abatement techniques are	considered.	above. Regarding	
					used in metal recycling, and their		the concentration	
					efficiencies at removing mercury.		found in articles,	
							recycling is not	
							considered.	
					Municipal solid waste: It would appear that	It should be noted that the use of	Improved	No further comments.
					the phenylmercury compounds account for	phenylmercury compounds in PU has	abatements	
					roughly one third of the mercury entering	not been focused on until recently.	techniques for	
					the waste incineration stream, if the	Other possible risk management	incinerators could	
					Kindbom & amp; Munthe (2007) study is	options are considered in Section E.1.1.	be seen as an	
					reliable. We think it would be useful to		alternative to	

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			Organi				comments	comments
			sation/					
			MSCA					
					make comparisons like this to provide		restriction,	
					context for the overall emissions from these		however, the whole	
					substances. Since incineration appears to be		emissions wouldn't	
					an important source of mercury release		be covered and all	
					from all consumer product types, and		the more the long	
					recognising that it might take a long time to		term issue of PBT	
					remove mercury from such products		transformation	
					completely, has it been considered whether		products would not	
					the use of improved abatement techniques		be resolved.	
					(i.e. a lower emission limit value) for			
					incinerators would provide a cost effective			
					means of reducing pollution?			
					We recognise that the release from landfills	More information would be welcomed.	See comment	RAC issue.
					is based on a default factor, of unknown		above.	
					reliability. We are currently consulting			
					other experts on this matter and may be able			
					to provide additional comment in due			
					course.			
					Section B.9.6.1 Summary of emissions		/	/
					From a total use of 33 [31.5] tonnes of	The release estimates in the dossier are	We don't see why	RAC issue.
					mercury per year, the total environmental	based on maximum tonnages for	the guidance	
					emissions are estimated to be 31.6 tonnes	production and consumption (in EU +	procedure and	
					(~96%). Is this plausible, or just the	EFTA) and releases during the life	default values	
					consequence of summing several	cycles are mainly based on defaults.	couldn't be	
					conservative scenarios together? For	However, it should be noted that	considered in this	
					comparison, a national pollution reduction	according to the estimations, the	case as plausible. If	
					plan for mercury and its compounds (see	majority of the emissions is assumed to	some	

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			Organi				comments	comments
			sation/					
			MSCA					
					attached) reports release data from the	accumulate in landfills (recalculated to	overestimations	
					Pollution Inventory for England and Wales	be 25 tonnes), whereas the estimated	were made by this	
					and the UK National Air Emissions	releases to the environment (to air and	approach they may	
					Inventory (NAEI). We believe that	waste water) is 6.4 tonnes per year	compensate the	
					including this sort of data would provide	(recalculated). The long-term fate of	absence of	
					useful additional context for the release	mercury in the landfill is not known,	knowledge about	
					estimates.	evidently there is a potential for a	the long term fate	
						release to the environment at a later	of waste in which	
						stage.	the mercury will	
							never disappear.	
					Table B9.6: The estimated mercury release	You are correct. The release factor for	Very well.	RAC issue.
					of 0.3 tonnes to air from landfilling is for a	landfills is further discussed and has		
					20-year period. Presumably this should be	been amended (release factor 0.01). For		
					0.0135 tonnes/year (using the annual release	further information see revised		
					rate of 0.05%).	document.		
					As suggested in the earlier comments, the	See response to earlier comments.	We acknowledge.	RAC issue.
					releases to air in particular from some of the			
					life cycle stages appear to be highly	reported total air emissions from		
					conservative. If this figure was lower, the	antropogenic sources in EU-27 for		
					comparison with the total air release of 150	2008 (and 2005) is now included in the		
					tonnes/year from all sources would then	revised report.		
					imply a much lower percentage contribution			
					to the emissions.			
					The figures in the dossier are based on	As mentioned above, the majority of	We agree that	RAC issue.
					maximum tonnages for production and	the emissions are assumed to	ranges are	
					consumption, and although this is an	accumulate in landfills (recalculated to	welcomed to	
					acceptable approach for an initial	be 25 tonnes), whereas the estimated	underline the	

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					conservative assessment, we should recognise that releases might be lower in reality. We think the range of possible emissions should be considered, because they might have implications for the socio- economic assessment, as well as the conclusion about the overall contribution of these substances to the risks arising from mercury emissions.	releases to the environment (to air and waste water) is 6.4 tonnes per year (recalculated). The long-term fate of mercury in the landfill is not known, evidently there is a potential for a release to the environment at a later stage. As mercury as such is persistent (in one form or another) this source cannot be eliminated. Using maximum estimates will affect both costs and benefits. As a result of this the cost effectiveness ratio will not change. It is also important to remember that emissions from imported articles are not included.	possible conservative approach. We support any overestimation that may so include the PBT and LRT concern of transformation products (which is never included in default values).	
					Section B.9.6.2 PECs		/	/
					We question the need for this section, since the overall concern is related to the formation of mercury/methylmercury associated with releases. The uncertainties in the physico-chemical properties and release factors also mean the final estimates have limited reliability (as the dossier recognises). Section B.9.7 Monitoring data	We recognise that the quantitative risk assessment have limited reliability, this is stated in the document as well. We have included it for the sake of completeness.	We acknowledge.	RAC issue.
					The flux of mercury from natural sources is mentioned in this section, but figures are	The section B9.7 monitoring data is moved to a separate appendix since it	We agree that one should consider	

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			ry/	ре			Rapporteurs	Rapporteurs
			Organi	-			comments	comments
			sation/					
			MSCA					
					not provided to place the emissions of the	presents monitoring data on mercury in	only these	
					phenylmercury substances into context. We	general.	monitoring data as	
					think this entire section is useful	Č (a global context	
					background information, but suggest it is		and this restriction	
					removed to an appendix, since it is linked to		as some	
					all mercury sources. In addition, care must		contribution that is	
					be made about drawing conclusions from		uneasy to estimate.	
					monitoring data in the Arctic away from			
					Europe (e.g. Canada), since the emission			
					pattern that leads to the observed			
					concentrations may not be comparable.			
					Section B.10.1.3 (Risk characterisation for)		/	/
					Indirect exposure of humans via the			
					environment			
					We think the paragraphs presented in this	Risk characterization of man via	Similar comment	RAC issue.
					section should be deleted because no risk	environment is moved to appendix I,	as above: we agree	
					characterisation has been performed for	since it is based on intake of	with these rules for	
					releases related to the specific substances,	methylmercury in general from fish	placing the data in	
					and the conclusions about increasing	and seafood products.	the report, all in	
					mercury levels are a generic concern (which		underlining the	
					appears to contradict the declining use of		complexity of a	
					these substances).		supporting	
							document (the BD)	
							which has several	
							annexes.	
					Section B.10.2 (Risk characterisation for)		/	/
					Environment			

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					We think the estimates in this section need to be reviewed as suggested above, and compared with emissions from other mercury sources to place the conclusions in context. As pointed out above, we do not think it is particularly helpful to present a risk assessment for the individual substances (referred to in Appendix 1).	See responses above.	Same comment.	RAC issue.
					Section C Available information on alternatives		/	
					It seems possible that other organomercury compounds could be used as alternatives for this group of substances – either other carboxylates or other arylmercury compounds. Although this might be unlikely given the current pressures on this type of chemistry, this possibility should be discussed in our view.	This is discussed in the revised report under alternatives (Section C).	Very well. RAC's opinion underlines the inappropriateness of other organomercury compounds as alternatives.	Agree. See section C.
					Silicones are mentioned as an alternative polymer system. It should be recognised that these might contain some impurities with a PBT profile of concern.	Agree.	This information about PBT impurities in silicones should be added.	RAC issue.
					Section C.3 Human health risks related to alternatives		/	/
					(p176) – Several alternative substances have been suggested, but the information on the	To our knowledge only two of the alternative substances were registered	DS can't know which alternative	RAC issue.

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			Organi				comments	comments
			sation/					
			MSCA					
					specific hazards for these alternatives is	in 2010, relevant information in the	will be chosen for	
					limited. We note on p 176 that four	registration dossiers could be included	each application.	
					potential alternatives were due to be	when obtained.	The assessment of	
					registered by 30 Nov 2010. Will it be		the alternatives can	
					possible to consult these registration		thus only be	
					dossiers for more information?		preliminary	
							screening.	
					2-ethylhexanoic acid is classified as DSD		Very well	RAC issue.
					Repr. Cat 3. The information for			
					developmental toxicity presented in table			
					C.3 (p 179) for this substance does not	on the classification in the CLP		
					highlight this concern (although it is			
					mentioned in the summary section). This			
					potential hazard needs to be clearly	follows the table.		
					presented in the table.		1	/
					Section C.4 Environment risks related to alternatives		/	/
					Some of the organotin compounds have	Catalysts based on organotin	Reference to the	RAC issue.
					been considered by the former TC NES	compounds are no longer specifically	annex XVII	
					PBT Working Group. Their conclusions	marketed as alternatives for the current	organostannic entry	
					should be reflected here.	uses of phenylmercury catalysts.	was made + it was	
						However, the risks of organotin	clearly highlighted	
						compounds in general are high and the	that the organotins	
						use of several organotin compounds are	are not appropriate	
						regulated in the EU. Reference to	alternatives.	
						REACH Annex XVII entry 20		
						(organostannic compounds) are		

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			ry/ Organi sation/ MSCA	pe			Rapporteurs comments	Rapporteurs comments
						included in the background document and more detailed consideration of the risks of the use of organotins are included in section C.1.2.4, C.3.2 and C.4.		
					Although in principle the environmental hazards of the other metal substances appears to be lower than for mercury, is there any indication that any of them might form methylated substances? This could be discussed from a chemical viewpoint, and would provide reassurance that there are no unintended consequences of their use. The hazard classifications could also be reviewed (e.g. once the CLP Inventory has been established). For example, zinc ions are known to be toxic to aquatic organisms and certain zinc compounds are classified as Aquatic Acute 1/Aquatic Chronic 1.	A table with available classifications has been compiled. No information about the potential to form methylated substances has been obtained.	Very well.	RAC issue.
					Table C.4: A log Kow has been presented for zirconium 2-ethylhexanoate. It is unclear what chemical species it refers to, and whether it is reliable.	The data was obtained from the US EPA HPV chemical challenge program and has not been further scrutinised.	We acknowledge.	RAC issue.
					C.5 (p184) – The dossier states that 70% of the use of phenyl mercury catalysts may be replaced relatively easily while 30% will require additional time. Some information is	We have contacted all identified manufacturers and formulators of these compounds. They state that they expect that it will be possible to	We agree with this comment of the UK MSCA. We also found that no	RAC issue.

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					convinced that the dossier has demonstrated that substitution will be possible for these uses within 5 years. The dossier should discuss whether there is any need for derogations in the event that suitable alternatives cannot be found for essential uses In order to assess the feasibility of this restriction more information is required on the spheres of use for TDI systems and aliphatic amine systems and the reasons why suitable alternatives are not currently available for these uses.	been supported by the lack of comments from industry on this point so far.	substitution will be possible within 5 years. This is a key point weighting in our proposal to shorten the implementation period to 3 years ("option-3).	
					On p185 the document talks about tin catalysts as an alternative but it is not clear that these will be safer than mercury based catalysts even though they may cost less.	See response regarding organotin compounds above.	See also corresponding comment above (C4).	RAC issue.
					E.1.1 P189 – Given our concerns about the exposure assessment for consumers we disagree that a risk has been demonstrated for the majority of cases as claimed in the	No further information regarding consumer exposure has been obtained, see responses above.	/ We acknowledge the weaknesses of the consumer risk assessment.	Agree. See DS responses above on the same issue.

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			Organi	_			comments	comments
			sation/					
			MSCA					
					final paragraph on this page.			
					p191 – Please provide evidence to support	We have contacted all identified	We accept to work	The trends described
					the statement that use of phenyl mercury	manufacturers and formulators of these	with this	in the dossier are
					compounds was 2-3 times greater in 1997	compounds. From these consultations it	uncertainty	supported indeed by
					compared to 2007. Please justify the	is clear that the use of these compounds	although it's a big	industry statements.
					assumption that there will be an exponential	have been decreasing the last 10 years.	one, notably as the	DS double checked
					decrease up to 2030.	All the information we have received	heart of the dossier	information obtained
						also indicates that the use will continue	is the properties	from industry and no
						to drop. On the basis of this we have	equivalent to PBT	contrary information
						made the assumption about the	substances.	was obtained during
						exponential decrease. It is important to		public consultation.
						note that in the absence of such a		
						decrease both the benefits and costs of		
						the restriction would be different.		
					E.1.2 (p194) – The inclusion of	Regulation 1223/2009 sets a condition	See also earlier	Agree that the
					manufacture and placing on the market in	of maximum 0.007 % (of Hg) in eye	comment about the	restriction proposal
					the restriction will limit the availability of	cosmetic products. It is recognised that	use as cosmetic	might have some
					these phenyl mercury compounds for uses	the prohibition of manufacture and	product.	indirect impacts on
					where it may be present in a preparation at	placing on the market will limit the		outside-REACH
					less than 0.01% (e.g. eye medication and	availability of these phenyl mercury		areas such as this
					cosmetics). This has not been considered so	compounds for such products. Use in		specific use.
					it is not possible to fully assess the	eye cosmetics has not been indicated by		However, given that
					consequences of this proposal. Also no	industry during the consultations and		this use is outside the
					consideration has been given to methods for	the actual need for use in eye cosmetics		scope of REACH and
					determining the mercury content in articles	today, and consequently the		of this proposal, a
					to assess compliance with the 0.01% limit.	implications in this area has not been		possible impact can
						investigated further.		be recognised but

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Phenylmercury acetate, EC number: 200-532-5 CAS number: 62-38-4 Phenylmercury propionate, EC number: 203-094-3 CAS number: 103-27-5 Phenylmercury 2-ethylhexanoate, EC number: 236-326-7 CAS number: 13302-00-6 Phenylmercuric octanoate, CAS number: 13864-38-5 Phenylmercury neodecanoate, EC number: 247-783-7 CAS number: 26545-49-3 Comments and response to comments on Annex XV restriction report on **5 Phenylmercury compounds**

Annex XV report submitted by Norway on 15 June 2010. Public consultation on Annex XV report started on 24 September 2010.

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			MSCA			Information about analytical methods for determining mercury content in articles has been included (new Appendix 10).		SEAC rapporteurs have doubts about the proportionality of further investigation. Moreover, no objection from industry or other stakeholders against the inclusion of manufacture has been obtained during consultation by DS as well as during public consultation.
					E.1.3 Other Community-wide risk management options than restriction		/	
					We agree that non-REACH options are not appropriate.		We acknowledge.	
					Clearly, restriction is an appropriate tool to consider in the case of imported articles, but the dismissal of the case for authorisation is not strong enough in our view. For example, could inclusion of all mercury compounds on Annex XIV be a way to encourage suppliers to make their own case for continued use, with an associated substitution plan? In that way, substitution	Authorisation has been discussed further in the dossier.	Authorisation option could have been further discussed, however due to the numerous applications and the need to apply a measure as soon as	See the revised BD.

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for phenyl mercury catalysts can be substituted within the 5 year time frame and it is not possible to identify whether any of these difficult to substitute uses are in safety critical applications. The authorisation process will send the same regulatory message to industry about the need to find alternatives but will also enable Member States to consider any uses where substitution cannot be accomplished on a case-by-case basis. We note the concern that criteria for identifying a substance as an SVHC on the basis of equivalent concern have not been developed where the key concern is degradation products but consider that a lack of clear criteria should	Ref Att	Date	Count ry/ Organi sation/ MSCA	Ty pe	Comment	DS Response	RAC Rapporteurs comments	SEAC Rapporteurs comments
198, it is not clear that all remaining uses for phenyl mercury catalysts can be substituted within the 5 year time frame and it is not possible to identify whether any of these difficult to substitute uses are in safety critical applications. The authorisation process will send the same regulatory message to industry about the need to find altermatives but will also enable Member States to consider any uses where substitution cannot be accomplished on a case-by-case basis. We note the concern that criteria for identifying a substance as an SVHC on the basis of equivalent concern have not been developed where the key concern is degradation products but consider that a lack of clear criteria should					would be prevented, and an overall emissions cap could be part of the		restriction seems really the best way to handle these mercury	
instruction of this option. E.2.1.2 Practicality					198, it is not clear that all remaining uses for phenyl mercury catalysts can be substituted within the 5 year time frame and it is not possible to identify whether any of these difficult to substitute uses are in safety critical applications. The authorisation process will send the same regulatory message to industry about the need to find alternatives but will also enable Member States to consider any uses where substitution cannot be accomplished on a case-by-case basis. We note the concern that criteria for identifying a substance as an SVHC on the basis of equivalent concern have not been developed where the key concern is degradation products but consider that a lack of clear criteria should not be seen as a barrier to the further exploration of this option.	manufacturers and formulators of these compounds. They state that they expect that it will be possible to substitute use of phenylmercury within 5 years. Our findings have later been supported by the lack of comments	The SVHC was already commented above. The substitution	response. The timeframe is indeed supported (and not disputed during consultation so far)

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					P199 No mention is made of whether or not analytical methods with suitable limits of detection are available to enable industry to demonstrate that articles comply with the restriction.	See new Appendix 10.	Improvements have been brought about by exchanges with forum and further investigations by DS.	Agree. See new Appendix 10.
					E.2.1.3 (p200) – It is not clear how effectively a restriction on the import of articles containing > 0.01% mercury can be monitored/enforced if such articles can only be distinguished from articles made with other catalysts by chemical analysis. Monitoring/enforcement will require regular inspections including sampling and analysis of articles and it is not clear that MS have the resources to take on this additional task. The costs for monitoring/enforcement should be considered in the socio-economic analysis.	See new Appendix 10	/	Agree. See new Appendix 10.
					Section F		/	
					The dossier lacks substantive evidence on the costs of mercury free PU systems versus mercury containing PU systems. Further information on the price of alternatives according to application, and whether those apps for which substitution is particularly difficult might face significantly higher	In order to understand exactly which uses and products would be most difficult to replace it would be necessary to consult with the actual users of the polyurethane systems. Unfortunately, this has not been possible as the producers of these	No comment / SEA issue.	Agree with the comment about the lack of data on the differential price between mercury free PU systems and mercury containing

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			Organi sation/ MSCA				comments	comments
					substitution costs should be included. The conclusion on economic feasibility is unclear, as are the criteria or benchmarks by which something is deemed to be economically feasible. For example, the cost of replacing systems using mercury catalysts is not expected to impose significant costs to industry according to the dossier, though it is unclear how and why this conclusion is reached. There is insufficient analysis of any change in product characteristics and any implications for use in applications This is a distinct lack of information on the historical and future manufacture and use of the phenylmercury substances. Such basic data ought to be a key component of the evidence presented in the dossier.	systems were not willing to give information about their customers due to commercial confidentiality. According to COWI and Concorde East/West (2008) Hg-free PU systems are not in general more costly than mercury-containing PU elastomer systems. In some cases they are even less costly. Therefore, the mere fact of being obliged to use a mercury-free system instead of a mercury-catalyzed system does in general not imply any change in cost. It is understood from one producer of polyurethane systems that changes to end products from the use of systems without mercury catalysts would not, in their opinion, result in compromises to the safety of the use of the end products. However, this cannot be ruled out for other companies and uses. We have extended this discussion in chapter C and F of the report.	No comment / SEA issue. No comment / SEA issue. We agree that emissions from exported articles could be discussed as it is a way to underline the impact that may be bigger than "only" air emissions. We thus added a discussion and a rough estimation of what could "come back" from air	PU systems. This information would have been useful to have incorporated in the SEA in section F. However, apparently this information couldn't be obtained directly from the users (for understandable reasons). Other sources have thus been used to get an idea of this differential. It is not fully satisfactory but it seems to be the only available information source.

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			ry/ Organi	ре			Rapporteurs comments	Rapporteurs comments
			sation/				comments	comments
			MSCA					
							LRT, food and articles.	
				imported a restriction restrict	on imports and emissions from rticles is lacking, even though the is partly based on the need to imported articles. Further n in this respect would be	There is a general lack of data related to imports of articles in the EU. We agree that this is a problem. It has not been possible for us to solve this problem during this work.	See previous comment.	Agree with the fact that this information would be desirable. But SEAC rapporteurs also rely on DS in all the efforts they had made to find the information and DS has highlighted the fact that no data on imported articles could have been obtained.
				on the co appropriate	er needs to provide further details onclusion that authorities have e control systems in place with enforceability.	There is a small number of manufacturers of phenylmercury compounds and formulators of phenylmercury catalysts (less than 8). This restriction should not be more difficult to enforce than a great number of other EU regulations.	/	Agree with DS response.
				included in	il is needed on what elements are n the cost information regarding cost of restriction option 2.	This is included in the revised report.	No comment / SEA issue.	Agree with DS.
				More discu	ussion and justification is needed	This is based on the information given	We agree also on	Agree with response

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			ry/ Organi sation/ MSCA	ре			Rapporteurs comments	Rapporteurs comments
					regarding the conclusion that the introduction of Restriction option 2 over a period of 2 years could be disproportionate in technical and financial terms.	to us from the industry. We have consulted all identified manufacturers of Phenylmercury compounds and formulators of Phenylmercury catalysts.	the need for some information on the technical terms to be convinced that a shorter delay is not appropriate as a shorter delay would be more appropriate from a risk point of view.	by DS.
					The description of impacts is very general and could benefit from a more qualitative or quantitative analysis being undertaken.	Agree. But it has not been possible to assess damage to health and environment that can be directly contributed to emissions of Hg from these products.	We acknowledge.	Agree with the comment and with DS response.
					The main cost of finding suitable alternative systems would according to the dossier be one-off R&D costs. What about any ongoing costs and consequent increase in price associated with cost increases arising from a potential need to change the materials and/or quantities used in mercury free products.	We have not received any information about such costs from the consultations.	No comment / SEA issue.	Please see comment by DS.
					Mercury products are considered to be premium products (presumably commanding a premium price), but it is unclear if and how this has been taken into	We have calculated replacement costs. We have not added any "premium product" costs.	No comment / SEA issue.	Including premium product costs would have allowed a little more refined and

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			MSCA		account in the compliance costs assessment of replacing them?			precise calculation but it should not be really necessary for the purposes of the dossier.
					The dossier often relies heavily on unsubstantiated assumptions and assertions in terms of the SEA analysis. More emphasis should be given to developing the evidence base and collection of information to further substantiate the claims made. Furthermore, the information given is often partial and provides only an incomplete picture of the situation, such that robust conclusions are difficult to make on the justification for the restriction in terms of impacts and its proportionality.	Assumptions are based on consultation with industry. See chapter G. There is however a limit due to availability of this information and the costs of obtaining it. It has not been possible to collect any more information within the limits of this work.	No comment / SEA issue.	Agree with the comment that more substantial information on costs would have been desirable. However, SEAC rapporteurs also agree with DS that the information and the robustness of the SEA are dependent on the availability of the information and especially on the industry's willingness to provide it.
								General comment: Rapporteurs agree with the DS responses. One general remark

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			Organi	pe			comments	comments
			sation/				comments	comments
			MSCA					
			MBCA					to MS' comments
								referring to the need
								for more information:
								rapporteurs find it
								important to keep in
								mind being
								proportional when
								preparing / evaluating
								a restriction proposal;
								more information
								would always be
								desirable but it is
								important to keep in
								mind what is "nice-
								to-know" and what is
								a "need-to-know".
								Regarding certain
								parts of the restriction
								proposal (e.g.
								information on costs of substitution,
								of substitution, information about
								availability and
								feasibility of
								alternatives, phase-
								out periods, etc.)
								authorities are
								generally dependent

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								on information provided by industry. In this specific case, the DS double checked information with industry and no converse information has been received during public consultation so far. The information collected and the assumptions made by the DS are thus considered to be correct, coherent and plausible and the calculations have been carried out in a sound and systematic way.

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			ry/ Organi	ре			Rapporteurs comments	Rapporteurs comments
			sation/ MSCA					
84	N	2010/12/21 12:14	/ / Ireland MSCA	 (A) (B), (C), (D) (E), (F) 	The Health and Safety Authority has no relevant information.			

Specific question 2

Specific question 1

Ref	Att	Date	Count	Ту	Comment	DS Response	RAC	SEAC
			ry/	pe			Rapporteurs	Rapporteurs
			Organi				comments	comments
			sation/					
			MSCA					
84	Ν	2010/12/21	/ /	(A)	The Health and Safety Authority has no		/	
		12:14	Ireland	(B),	relevant information.			
			MSCA	(C),				
				(D)				
				(E),				
				(F)				

Specific question 3

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84	N	2010/12/21 12:14	MSCA / / Ireland MSCA	(A) (B), (C),	The Health and Safety Authority has no relevant information.		/	
			MIDEAT	(C), (D) (E), (F)				

Specific question 4

Ref	Att	Date	Count	Ту	Comment	DS Response	RAC	SEAC
			ry/	pe			Rapporteurs	Rapporteurs
			Organi				comments	comments
			sation/					
			MSCA					
84	Ν	2010/12/21	/ /	(A)	The Health and Safety Authority has no		/	
		12:14	Ireland	(B),	relevant information.			
			MSCA	(C),				
				(D)				
				(E),				
				(F)				

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