

Committee for Risk Assessment RAC

Annex 2 **Response to comments document (RCOM)** to the Opinion proposing harmonised classification and labelling at Community level of **fuberidazole**

ECHA/RAC/ CLH-O-0000001404-79-01/A2

Adopted

26 October 2010

ANNEX 2 - COMMENTS AND RESPONSE TO COMMENTS ON CLH PROPSAL ON FUBERIDAZOLE COMMENTS AND RESPONSE TO COMMENTS ON CLH: PROPOSAL AND JUSTIFICATION

Comments that refer to several hazard classes are entered under each of the relevant categories/headings

Substance name: FUBERIDAZOLE CAS number: 3878-19-1 EC number: 223-404-0

General comments

| Date | Country/ | Comment | Response | Rapporteur's comment |
|------------|---------------------------|--------------------------------------------|------------|-----------------------------------------|
| | Person/Organisation/ | | | |
| | MSCA | | | |
| 22/02/2010 | Germany / Jan | Page 46 | Thank you. | Noted |
| | Averbeck / MSAC | The German CA supports to establish a | | |
| | | harmonised classification & labelling for | | |
| | | Fuberidazole, which is an active | | |
| | | ingredient in plant protection products | | |
| | | (Dir. 91/414/EEC). | | |
| 01/03/2010 | Poland / Authority | According to the article 36 (2) of | Thank you. | Beyond the dossier submitter's proposal |
| | Biuro ds Substancji i | Regulation No 1272/2008 of the | | RAC recommends to additionally |
| | Preparatów | European Parliament and of the Council | | classify Fuberidazole for |
| | Chemicznych | of 16 December 2008 on classification, | | carcinogenicity (CLP Carc. 2 resp. DSD |
| | | labeling and packaging of substances and | | Carc. Cat. 3). For the detailed |
| | | mixtures (CLP regulation) a substance | | justification of this RAC proposal |
| | | that is an active substance in the meaning | | please refer to the background and |
| | | of Directive 91/414/EEC shall normally | | opinion document. |
| | | be subject to harmonized classification | | |
| | | and labelling. Because fuberidazole is a | | |
| | | benzimidazole fungicide and was | | |
| | | approved for Annex I of Council | | |
| | | Directive 91/414/EEC there is a legal | | |
| | | background for Member States to send a | | |
| | | proposal for harmonized classification | | |
| | | and labeling. | | |
| | | Taking into account information provided | | |
| | | in Proposal for Harmonized Classification | | |
| | | and Labelling we agree with the | | |
| | | harmonized classification proposed by | | |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
| | MSCA | | | |
| | | UK REACH Competent Authority. Fuberdiazole is already included in Annex VI to the CLP regulation. This substance is classified as Xn; R22 and N; R50/53. The information included in proposal sent by UK REACH Competent Authority confirm this classification. | | |
| 02/03/2010 | Denmark / Krista Julie Bøgebo / MSCA | We agree with the proposed classification. | Thank you . | Beyond the dossier submitter's proposal RAC recommends to additionally classify Fuberidazole for carcinogenicity (CLP Carc. 2 resp. DSD Carc. Cat. 3). For the detailed justification of this RAC proposal please refer to the background and opinion document. |
| | | | | |

Carcinogenicity

| Date | Country/ | Comment | Response | Rapporteur's comment |
|------------|----------------------|--------------------------------------------|------------|-----------------------------------------|
| | Person/Organisation/ | | | |
| | MSCA | | | |
| 22/02/2010 | Germany / Jan | Page 34 | Thank you. | Beyond the dossier submitter's proposal |
| | Averbeck / MSAC | The German CA supports not to classify | | RAC recommends to additionally |
| | | Fuberidazole for carcinogenic effects. In | | classify Fuberidazole for |
| | | rats uterine tumours were observed in | | carcinogenicity (CLP Carc. 2 resp. DSD |
| | | incidences as high as in historical | | Carc. Cat. 3). For the detailed |
| | | controls. Hence this is probably only a | | justification of this RAC proposal |
| | | chance finding. In females, benign thyroid | | please refer to the background and |
| | | follicular cell adenomas were detected in | | opinion document. |
| | | low incidences but nevertheless above | | |
| | | historical controls. | | |
| | | In male mice, liver adenomas were | | |
| | | observed in incidences above (historical) | | |
| | | controls. Considering the liver toxicity | | |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
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| | | observed in this study, these tumours are | | |
| | | probably not relevant for humans. | | |
| | | Considering the occurrence in one species | | |
| | | and one sex of benign adenoma, in low | | |
| | | incidences and the (overall) negative | | |
| | | results in genotoxicity studies, it is | | |
| | | considered not necessary to classify. | | |
| 27/02/2010 | France / Antony | Since the mechanism of tumour formation | The MS is correct that the mechanism of | Beyond the dossier submitter's proposal |
| | Fastier / National | in the thyroid of female rats is not known, | action of the thyroid tumours is not | RAC recommends to additionally |
| | Authority | it cannot be concluded that it is not | known. However, the mechanism was | classify Fuberidazole for |
| | | relevant for humans. Due to this | non-genotoxic. Only benign thyroid | carcinogenicity (CLP Carc. 2 resp. DSD |
| | | uncertainties, a classification for | tumours were observed, which were | Carc. Cat. 3). For the detailed |
| | | carcinogenicity could be proposed: | species and sex-specific and occurred in a | justification of this RAC proposal |
| | | Carc.Cat.3 R40 or Carc.2 H351. | low incidence. We have included | please refer to the background and |
| | | | additional information in the Annex VI | opinion document. |
| | | | report to illustrate the background | |
| | | | incidence of this tumour type in rats; and | |
| | | | to indicate that the rat thyroid appears to | |
| | | | be far more susceptible to the induction of | |
| | | | carcinogenic tumours than is the human | |
| | | | thyroid. Therefore, we consider the | |
| | | | observed tumours to be of limited or no | |
| | | | relevance to humans and propose that | |
| | | | classification is not necessary. | N |
| 03/03/2010 | Sweden / Chemicals | Three types of tumours are detected, | We shall consider each tumour type in | Beyond the dossier submitter's proposal |
| | Agency (KEMI) | uterine and thyroid tumours in female rats | turn. | RAC recommends to additionally |
| | | and also liver tumours in male and female | Utaning towns in acts. The insidence in | classify Fuberidazole for |
| | | mice. Even when the tumour incidence is | <i>Uterine tumours in rats</i> : The incidence in the high dage group was higher than the | Care Cat 2) For the detailed |
| | | within the historical control range as for | the high-dose group was higher than the | Carc. Cat. 5). For the detailed |
| | | the liver type the control in the study | concurrent controls but was within historical control data from studies | Justification of this KAC proposal |
| | | should be of more importance. Since there | instolical control data from studies | opinion document For details of |
| | | are three different types of typeurs | fuberidazole study. Also, there was no | instification see background document |
| | | classification as Care Cat 3: P40 (CI P | clear dose-response in tumour induction | Justification see background document. |
| | | Care Cat 2.H351) may be appropriate | The available information did not provide | |
| | | care. car. 2,11551) may be appropriate. | sufficient evidence that fuberidazole had | |
| | | | resulted in an increased tumour incidence. | |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
| | MSCA | | | |
| | | | Thyroid tumours in rats: The incidence of | |
| | | | benign tumour induction in females of the | |
| | | | high-dose group was slightly higher than | |
| | | | the concurrent controls and the historical | |
| | | | control range. Additional information has | |
| | | | been added to the Annex VI report to | |
| | | | provide more information on the | |
| | | | background incidence of this tumour type | |
| | | | in Wistar rats; and to illustrate that the rat | |
| | | | thyroid appears to be far more susceptible | |
| | | | to chemically-induced follicular cell | |
| | | | adenoma than does the human thyroid. | |
| | | | Therefore, although no information on the | |
| | | | mechanism of thyroid tumour formation | |
| | | | was available, we consider the tumours to | |
| | | | be of low or no relevance to humans. | |
| | | | Liver tumours in mice: Male NMRI mice | |
| | | | exhibited an incidence of benign liver | |
| | | | tumours that was slightly above that of | |
| | | | the historical control range from two | |
| | | | years either side of the fuberidazole study. | |
| | | | The tumours were associated with severe | |
| | | | hepatoxicity (necrosis), which may have | |
| | | | been responsible for the tumour | |
| | | | formation. The mouse liver appeared to | |
| | | | be more sensitive to the hepatoxic effect | |
| | | | of fuberidazole than rats and dogs; male | |
| | | | NMRI mice have an intermediate | |
| | | | susceptibility for spontaneous liver | |
| | | | likely to be of low or no relevance for | |
| | | | humans | |
| | | | numans. | |
| | | | Conclusion: Fuberidazole was non- | |
| | | | genotoxic in the evaluated mutagenicity | |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
| | MSCA | | | |
| | | | studies. There was no clear increase in the | |
| | | | incidence of uterine tumours in rats. The | |
| | | | tumours induced in the rat thyroid and the | |
| | | | mouse liver were benign, of low | |
| | | | incidence, were sex- and species-specific, | |
| | | | and occurred in single tissues of species | |
| | | | that are known to be more susceptible to | |
| | | | chemically-induced carcinogenicity than | |
| | | | are those of humans. Based on the | |
| | | | evidence, we propose not to classify for | |
| | | | carcinogenicity. | |
| | | | | |
| | | | | |

Mutagenicity

| Date | Country/ | Comment | Response | Rapporteur's comment |
|------------|----------------------|----------------------------------------|------------|----------------------|
| | Person/Organisation/ | | | |
| | MSCA | | | |
| 22/02/2010 | Germany / Jan | Page 29 | Thank you. | Noted |
| | Averbeck / MSAC | The German CA supports not to classify | | |
| | | Fuberidazole for mutagenic hazard. | | |
| | | | | |
| | | | | |

Toxicity to reproduction

| Date | Country/ | Comment | Response | Rapporteur's comment |
|------------|----------------------|-----------------------------------------|-----------------------------------------|-------------------------------------------|
| | Person/Organisation/ | | | |
| | MSCA | | | |
| 22/02/2010 | Germany / Jan | Page 36, 40 | Thank you. | Noted |
| | Averbeck / MSAC | The German CA supports not to classify | | |
| | | Fuberidazole for reproductive or | | |
| | | developmental effects. | | |
| 03/03/2010 | Sweden / Chemicals | Developmental toxicity | | RAC recommends not to classify |
| | Agency (KEMI) | Fuberidazole do not seem to inhibit the | In one rat developmental study, one | Fuberidazole for reproductive toxicity |
| | | spindle proteins as structural similar | incidence of microphthalima occurred in | (fertility impairment and developmental |
| | | compounds do but still a typical | each of the low- and mid-dose groups. | toxicity). For the detailed justification |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
| | MSCA | malformation for these compounds, microphthalmia, occurs twice, one case in resp. low and mid-dose groups. Can the occurrence of this rather rare malformation be regarded as incidental and unaffected by treatment? Dose- dependency can not be expected with rare malformations. | Microphthalmia did not occur in rabbits or in two other rat studies when fuberidazole was administered at higher doses. Whilst we acknowledge that the spontaneous incidence of microphthalmia is generally low, the strain of Wistar rat used in the study in which microphthalmia occurred (Hsd cpb:WU, 'Wuppertal') is known to be susceptible to the induction of this malformation, with reported foetal incidences of 2% and litter incidences of 20%. We do not consider that the isolated incidences in rats in one study provide sufficient evidence to support classification. | of this RAC proposal please refer to the background and opinion document. |
| | | In the two-generation study clear negative effects on pup viability and body weight gain. The effects on viability and lactation indices are more severe when the dams are mated a second time (F1B) as well as in the second generation (F1A and F2B). The reduced viability indices of the pups could not be explained by a general poor condition of the dams or not clearly associated with the reduction in the body weight gain of the pups. These developmental effects justify a classification as Repr. Cat. 3; R63 (CLP Repr. Cat. 2; H361d). | The viability and lactation effects observed in the rat two-generation study were not associated with overt maternal toxicity. However, the changes were inconsistent within and between generations, and they were relatively small (sometimes within the historical control data range). For these reasons it is not considered appropriate to classify for developmental toxicity. | |
| | | A question for clarification. In the Table to the 2-generation study the control values lactation index in F1A and F1B are very low 66.0 and 31.7. Are these figures correct? No explanation for this increase in pup mortality is given. | These figures are correct. No explanation for the low lactation indices was given in the study report, but in all the groups the pup deaths occurred across litters and generally between one and two weeks of lactation. | |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | MSCA | | | |
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Respiratory sensitisation

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
| | MSCA | | | |
| 22/02/2010 | Germany / Jan | Page 19 | Thank you. | Noted |
| | Averbeck / MSAC | The German CA supports not to classify | | |
| | | Fuberidazole for respiratory sensitising | | |
| | | hazard. | | |
| | | | | |
| | | | | |

Other hazards and endpoints

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
| | MSCA | | | |
| 22/02/2010 | Germany / Jan | Page 17 | Thank you. | Noted (acute toxicity) |
| | Averbeck / MSAC | The German CA supports to classify | | |
| | | Fuberidazole for acute toxicity (R22, | | |
| | | H301-H302). The oral LD50 values in | | |
| | | rats were $> 300 - 792$ mg/kg bw and | | |
| | | justifies the classification with category | | |
| | | 4 (guidance value in CLP reg.: $300 <$ | | |
| | | LD50 = < 2000 mg/kg bw and as | | |
| | | harmful (guidance value in DSD: 200 < | | |
| | | LD50 =<2000 mg/kg bw). | | |
| | | Page 10 | | |
| | | The Common CA summents to closefy. | Theatree | Noted (alvin consistingtion) |
| | | The German CA supports to classify | Thank you. | Noted (skin sensitisation) |
| | | ruberidazoie ioi skili selisiusilig | | |
| | | properties (R45, H17). In and | | |
| | | maximisation test Guinea pigs, 50 % to | | |
| | | 85 % of the animals showed skin | | |
| | | reactions upon challenge (guidance | | |
| | | value in CLP reg. and DSD: 30 % for | | |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | MSCA | | | |
| | | studies with adjuvant). Even though a | | |
| | | second study with a different design | | |
| | | (open epicutneous test) showed no skin | | |
| | | reactions, it is considered appropriate to | | |
| | | classify the compound because the | | |
| | | maximisation test is considered more | | |
| | | rigorous and out of precautionary | | |
| | | principles (to cope with conflicting | | |
| | | results). | | |
| | | Page 25 | | |
| | | The German CA supports to classify | Thank you. | RAC recommends to classify |
| | | Fuberidazole for specific target toxicity | | Fuberidazole for specific target organ |
| | | (repeated exposure) (R48/22, H373). In | | toxicity (CLP STOT RE 2; DSD |
| | | the 1-yr study in dogs, focal fibrosis of | | R48/22). For a detailed discussion of |
| | | the heart was observed at dosed of 3.6 | | whether to classify with STOT RE 1 |
| | | mg/kg bw/d and above (supported by | | or RE 2 please refer to the |
| | | an increase of creatinine kinase). This | | background and opinion document. |
| | | finding is evidence of cell death in a | | |
| | | vital organ incapable of regeneration | | |
| | | and was noted on microscopic | | |
| | | though there were no clinical signs that | | |
| | | indicated to a heart dysfunction we | | |
| | | consider this finding a severe finding | | |
| | | Guidance value in CLP reg for | | |
| | | category 2 in 90-d study: $10 < C = <$ | | |
| | | 100 mg/kg bw/d (applying Haber's rule | | |
| | | this range correlates with $\sim 2.5 < C = <$ | | |
| | | 25 mg/kg bw/d in a 1-yr study). | | |
| | | Guidance value in DSD for "harmful" | | |
| | | in 90-d study: 5 < C =< 50 mg/kg bw/d. | | |
| | | Therefore, the criteria for R48/22 and | | |
| | | H373 are fulfilled. | | |
| | | The German CA supports not to | Noted | Noted (any other toxicological |
| | | classify for any other toxicological | | hazards) |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
| | MSCA | | | |
| AF (0.0 (0.0 1.0 | | hazard. | | |
| 27/02/2010 | France / Antony | Since increased incidence of heart | UK: The MS is correct that the heart | RAC recommends to classify |
| | Fastier / National | fibrosis in dog occurs at 3.6 mg/kg | fibrosis occurred at doses below the | Fuberidazole for specific target organ |
| | Authority | $d_{\rm bw/d}$, level below the guidance values | guidance values given in Directive | (LP SIOI RE 2; DSD P48/22) For a datailed discussion of |
| | | 10 mg/kg bw/d (07/348/EEC) and 01 10 mg/kg bw/d (1272/2008/EC) | or/346/EEC and CLP. These values | k48/22). For a detailed discussion of whether to classify with STOT PE 1 |
| | | therefore the classification should be : | studies. The proposed classification is | or RE 2 please refer to the |
| | | T R48/25 or STOT RF1 (heart) H372 | based on effects in a one-year dog | background and opinion document |
| | | 1, K+0/25 of 5101 KE1 (learly, 115/2 | study In such cases the UK's | background and opinion document. |
| | | | approach is to take account of the | |
| | | | overall toxicity rather than to | |
| | | | rigorously apply these guidance values | |
| | | | or use allometric scaling. The cardiac | |
| | | | fibrosis in dogs only occurred after | |
| | | | extended (one year) exposure; shorter | |
| | | | durations of exposure with higher | |
| | | | doses did not cause this effect. Apart | |
| | | | from one substance-related death, the | |
| | | | remaining animals did not exhibit | |
| | | | clinical signs of toxicity, and the | |
| | | | papillary muscle fibrosis was only | |
| | | | apparent at histopathology. For these | |
| | | | reasons, we propose a classification of $V_{\rm res} = 0.48/22$ and STOT DE 2 (heart) | |
| | | | Xn; R48/22 and $S101$ RE 2 (neart); | |
| 01/02/2010 | Dolond / Authomity | The soute environmental election | Thenk you | Noted (anvironmental elessification) |
| 01/03/2010 | Riuro de Substancii i | was based on the more sensitive | Thank you. | Noted (environmental classification) |
| | Prenaratów | taxonomic group $-$ fish The LC50 | | |
| | Chemicznych | value obtained in 96-h study for | | |
| | Chemiczny en | Oncorhynchus mykiss performed | | |
| | | according OECD Guideline 203 was | | |
| | | 0,91 mg/l. The obtained value was less | | |
| | | than $1 mg/l$ – the basis to classify a | | |
| | | substance as N; R50 according to the | | |
| | | directive 67/548/EWG or Aquatic | | |
| | | Acute 1; H400 according to CLP | | |
| | | regulation. Based on the LC50 value | | |

| Person/Organisation/ MSCA | |
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| MSCA | |
| abtained for Oneorbymobile multiss the | |
| proper value of M factor was chosen | |
| We have only remark to the | |
| environmental labelling. On the page | |
| number 44 we can see: | |
| "Based on the CLP Regulation. The presentation of the label Labelling with H400 p | us H410 or |
| fuberidazole should be classified information is now consistent with the only with H410: Accord | ling to table |
| Aquatic Acute 1, Aquatic Chronic 1 approach taken for other substances 3.1 of Annex VI of | the CLP |
| With the following labeling: H400 already discussed by the Risk regulation environmental | labelling of |
| "Very toxic to aquatic life" and H410 Assessment Committee. fuberidazole is only wi | th H410. In |
| "Very toxic to aquatic life with long the background docume | nt H 400 is |
| lasting effects" deleted when it comes to | labelling. |
| this text should be amended as: | |
| "Based on the CLP Regulation, | |
| fuberidazole should be classified | |
| Aquatic Acute I, Aquatic Chronic I | |
| With the following labeling: H410 | |
| very toxic to aquatic fife with long | |
| hasting effects | |
| Appendix according to the CLP Regulation | |
| substances classified ac Aquatic Acute | |
| 1: H400 and Aquatic Chronic 1: H410 | |
| required on the label only hazard | |
| statement H410 (Very toxic to aquatic | |
| life with long lasting effects). | |
| Classification of fuberidazole as skin Noted (skin sensitisation) | 1 |
| sensitizer was based on Guinea-Pig | |
| Maximisation Test (GPMT) which was | |
| conducted according to OECD 406 | |
| method. A positive response was | |
| observed in more than 50% of tested | |
| animals. We agree that this test was | |
| cnosen as a basis for classification, | |
| not show sensitizing properties | |
| because adjuvant-type test like GPMT | |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | MSCA | | | |
| | | is more accurate in predicting a | | |
| | | probable skin sensitizing effect of a | | |
| | | substance in humans than those not | | |
| | | employing adjuvant. | | |
| 03/03/2010 | Sweden / Chemicals | We agree with the proposal to classify | Thank you. | Noted |
| | Agency (KEMI) | fuberidazole for skin sensitisation. | | |
| 03/03/2010 | Sweden / Chemicals | Environmental classification: | | |
| | Agency (KEMI) | We agree with the proposed | Thank you. | Noted (environmental classification) |
| | | classification for Fuberidazole as | | |
| | | N;R50-53, Acute 1, Chronic 1 and the | | |
| | | proposed Specific Concentration Limits | | |
| | | (according to DSD) and M factor of 1 | | |
| | | according to CLP. | | |
| | | San ifi a same sata | | |
| | | Specific comments: | | |
| | | 4.1.1 Stability | We have included some additional text | Noted (analific comments of to |
| | | difficult to use for elessification | we have included some additional text | Noted (specific comments as to |
| | | purposes (see Guidance part IV II 2-3- | photolysis data (similar to the | ecoloxieny) |
| | | 9) and is generally not needed as the | approach taken for Abameetin) | |
| | | degradation in the environment is based | However we think it is relevant to | |
| | | on data from the simulation tests | retain it as part of the whole picture on | |
| | | on data from the simulation tests. | degradation and to help provide | |
| | | | context to the interpretation of the | |
| | | | aquatic ecotoxicity data | |
| | | | aquate costonicity data. | |
| | | 4.1.2.1. Biodegradation estimation. | We included a OSAR prediction in the | |
| | | A OSAR estimate of biodegradation | spirit of improving confidence in the | |
| | | potential is presented. Since it is | use of estimation methods. This | |
| | | unclear whether the substance meets | information was not presented in the | |
| | | the domain of the model, this prediction | original DAR prepared under | |
| | | is useless. In addition this section | 91/414/EEC, and we accept that it | |
| | | discusses persistence which is not | should really have been presented | |
| | | relevant for the classification. | using the QSAR prediction reporting | |
| | | | format. We also accept that reference | |
| | | | to the REACH screening criteria are | |
| | | | not relevant. Since reliable simulation | |

| Date | Country/ | Comment | Response | Rapporteur's comment |
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| | Person/Organisation/ | | | |
| | MSCA | | | |
| | | | data are available, we have deleted the | |
| | | | text from Section 4.1.2.1. | |
| | | | | |
| | | 4.3.1.1. | We included a QSAR prediction in the | |
| | | In this section a QSAR prediction on | spirit of improving confidence in the | |
| | | BCF for fish is presented. Since the | use of estimation methods. This | |
| | | substances lies in the domain of the | information was not presented in the | |
| | | model it seems that the model has been | original DAR prepared under | |
| | | correctly applied. However, in order to | 91/414/EEC, and we accept that it | |
| | | judge how accurate the prediction is | should really have been presented | |
| | | more information is needed. In this | using the QSAR prediction reporting | |
| | | particular case, however, knowing that | format. Since the log Kow is below 3 | |
| | | the log Kow of the substance is 0.78- | and metabolism is extensive, there is | |
| | | 2.51 and that the substance is | no need to present a QSAR estimate so | |
| | | metabolized it is reasonable to assume | the text has been deleted. [We have | |
| | | that the substance does accumulate in | interpreted the last sentence of the | |
| | | fish. | comment to mean that it is assumed | |
| | | | that the substance does NOT | |
| | | | accumulate in fish.] | |