



13th of February 2009, 11h00 - 12h30

PARTICIPANTS

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(DRAFT) MINUTES

Action points are in green.

1. Interim report

1.1 Main objectives of the Pilot project were to understand how the grouping of the substances shall be performed, analyse the data gaps and the way how to approach those, either by read-across or by intelligent testing. Reviewing the proprietary data and the sources identified by WCA, all possible test waivers and read across were done. Nevertheless, there are still some data gaps. Since there are key data missing, there has been no progress done on the category approach. Categories were kept as in the final report of Phase I of PGM's & Re Project.

1.2 Studies supplied by PMC were categorized based on substances. Some studies were of good quality and those were assigned Klimish score 1 and 2. On the other hand there were the studies submitted with missing pages. *WCA has made a list of those and will revert to PMC Secretariat in order to obtain the complete versions.* Some of the data were submitted in the form of the Excel spread sheets, but those were not referenced. In summary, among the proprietary data there were many studies relevant to the in-scope substances but not to physico-chemical endpoints.

The emphases was put on the water solubility data, since it is the bioavailability of the metal, which will further determine its impact on the toxicity to the environment. Few studies were found addressing water solubility of Pd substances, but those are unfortunately not useful. Either they are dealing with Pd metal it self, insoluble compound or are not relevant because the concentration is under the detection limit. Lacking the physico-chemical data, eco-toxicity data cannot prove the correctness of the category approach. As mentioned previously, categories thus remained the same as in Final report of Phase I, being oxidation stated and solubility based.

High level reviews were also screened for the physico-chemical properties but those are also very poor on providing the physico-chemical information, e.g. water solubility. Usually, such reviews are referencing to very limited abundance of Pt, Pd and their substances in the nature.

The water solubility data are essential both to fulfil the REACh requirements and to address the eco-toxicity endpoints. *There is one proprietary study dealing with Pd*



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metal identified. It has been assigned Klimish 3, but since it can contribute to weight of evidence it shall be re-assessed by WCA.

BIBRA has identified and evaluated few corrosivity studies and fair number of mammalian toxicity studies, which can be used to read-across. Regarding Pd and its substances, there were 7 robust summaries prepared. Most of identified information was addressing Pd soluble compounds, leaving only limited number of data concerning Pd metal. Nevertheless, those can be used as weight of evidence addressing the Pd metal. In total, 44 robust summaries were prepared for Pt and its substances.

It was pointed out, that the high quality reviews should be used not necessary reviewing all referenced literature.

It was also mentioned/explained, terms soluble and insoluble is usually understood in different ways by the chemist and (eco)toxicologist. Pt metal solubility of 0.1 mg/L was set as an example. The PNEC of about 0.1 µg/L can be derived from such concentration.

Dave Boyd proposed to provide involved participants with the opinion on likely water solubility and decomposition of pilot study substances¹.

PMC will contribute some more proprietary studies, approx. 28, but those according to the list provided by Members, but those will mostly address eco-tox and mammalian toxicity endpoints.

1.3 In mutual agreement for further improvement of the final report of Pilot project, the due date to deliver the final report was postponed to 20 March 2009. *Together with the final report following should be delivered: robust summaries sanitised for the confidential information, detailed test recommendation, more definite cost estimate based on the Pilot project, Annex III approach and further evaluation of water solubility studies.*

2. Testing needs

2.1 As the key data gaps to be filled in by testing, water solubility together with short time aquatic toxicity (algal study) were proposed by WCA. Transformation/Dissolution test as the indicator of metal bioavailability was also discussed. T/D testing seems to be less straight forward route in moving the project ahead. If the T/D together with the speciation is required, project may be delayed by the limited number of laboratories performing the test and waiting lists.

Water solubility testing was identified as the absolute way forward. Three laboratories, HLS, Springborn and Harlan were approached by WCA and PMC received the quotation for physico-chemical test performed at those laboratories. Among those Springborn seemed to be the one to be chosen. Nevertheless, this laboratory doesn't have the experience in metal testing. PMC reflected on that, *asking WCA to inquire the quotation from additional laboratory - Parametrics.*

¹Post meeting note: Dave has provided the document on 13 March 2009 to all the participants.



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Final report should provide PMC with the logical recommendation on what species to be tested or whether it is necessary to test the whole series of in-scope substances for water solubility. *As an action point for the PMC Secretariat it is to resolve the issue with Dibenzylideneacetone palladium complexes having three different CAS numbers².* Further test plan should be provided as well, stating the name of the laboratory, cost, method and the reasoning behind the laboratory choice. The endpoints together with the costs which are not relevant to PMC in-scope substances should disappear in the final report.

²**Post meeting note:** Secretariat has approached the company in question by e-mail on 16 March 2009.