



Precious Metals
Consortium

Precious Metals & Rhenium Consortium

Discussion on occupational risk assessment in Pt REACH dossiers

7 July 2016 | MCC, Brussels



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1. Welcome and tour-de-table

Confidentiality and Competition Law

DO	DON'T
<u>Application of competition law</u>	
Art. 101 and 102 TFEU may be applicable to the conclusion of any preliminary agreement and activities of any preliminary phase.	Don't assume that conflicts with competition law are excluded simply by the fact that the Agreement complies with the provisions of the REACH Regulation.
<u>Consultation in Matters of Competition Law</u>	
Consult an in-house legal expert or the compliance officer of your company or an external lawyer whenever there are uncertainties respecting compliance with competition law. Stop all meetings/discussions which are not in compliance with these Compliance Guidelines until a legal expert has been involved.	Don't assume that these Compliance Guidelines deal with all competition law issues exhaustively. Basically, compliance with Art. 101 and 102 TFEU can be determined only on the basis of market impact in each individual case. These Compliance Guidelines may therefore be regarded only as a means of providing general conduct recommendations.
<u>Activities in any preliminary phase and at any other stage of operation of the Consortium</u>	
Restrict cooperation within the scope of the preliminary phase to the initially defined goals and purposes of the cooperation.	Pursuant to Art. 101 and 102 TFEU, activities which have the object or the effect of preventing, restricting and/or distorting competition are prohibited within the scope of this Agreement, including: <ul style="list-style-type: none"> - Coming to agreement, including arrangements or collusions, about prices, markets and customers (see Art. 101 paragraph 1 a)-e) TFEU); - Joint boycotting of other companies; - The unjustified unequal treatment of trade partners; - The abusive exploitation of a dominating market position.
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Involve a Trustee for the exchange of Confidential Information.	The exchange of Information concerning market behaviour and having the object or the effect of preventing, restricting and/or distorting competition is inadmissible; in particular, this relates to : <ul style="list-style-type: none"> - Production capacities; - Productions or sales volumes; - Import volumes; - Market shares; - Price policy; - Distribution and marketing terms; - Marketing strategies; - Information regarding the relationship with suppliers.
<u>Documentation on Cooperation</u>	
Keep minutes of all meetings which detail the subject of the meeting. In case of uncertainty, have the contents of the minutes reviewed by an external legal expert prior to sending them to all parties of the Agreement. Stop all meetings which are not in compliance with these Guidelines until a legal expert has been involved.	



Approval of the agenda

- Welcome, tour de table & anti-trust (11.00-11.05)
- Introduction to the CIPt Occupational ES & overview of next steps (11.05-11.15)
- Discussion draft ES (11.15-12.30)
- Lunch (12.30-13.00)
- Further discussions draft ES (13.00-14.30)
- Coffee break (14.45-15.00)
- Conclusions and wrap-up of meeting (15.00-16.00)





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Introduction to the ClPt Occupational ES & overview of next steps

Introduction

- Occupational exposure scenarios developed for
 - Hexachloroplatinic acid (CAS 16941-12-1) (10-100 tpa)
 - Dipotassium hexachloroplatinate (CAS 16921-30-5) (10-100 tpa)
 - Diammonium hexachloroplatinate (CAS 16919-58-7) (10-100 tpa)
 } chloroplatinates
- Dihydrogen hexahydroxyplatinate
 - Platinum dinitrate
 } Soluble Pt compounds
- Overview hazard conclusions workers

Substance	Inhalation				Dermal				Eyes
	systemic		local		systemic		local		
	longterm	acute	longterm	acute	longterm	acute	longterm	acute	
Diammonium hexachloroplatinate	<u>high</u>	<u>medium</u>	<u>high</u>	<u>high</u>	<u>high</u>	<u>medium</u>	<u>medium</u>	<u>medium</u>	<u>medium</u>
Dipotassium hexachloroplatinate	<u>high</u>	<u>medium</u>	<u>high</u>	<u>high</u>	<u>high</u>	<u>medium</u>	<u>medium</u>	<u>medium</u>	<u>medium</u>
Hexachloroplatinic acid	<u>high</u>	<u>high</u>	<u>high</u>	<u>high</u>	<u>high</u>	<u>high</u>	<u>medium</u>	<u>medium</u>	<u>medium</u>
Dihydrogen hexahydroxyplatinate	OT: 2 µg soluble Pt/m ³	NHI	NHI	NHI	0.667 mg/kg bw/d	NHI	NHI	NHI	<u>low</u>
Platinum dinitrate	OT: 2 µg soluble Pt/m ³	HU	<u>high</u>	<u>high</u>	0.356 mg/kg bw/d	HU	<u>high</u>	<u>high</u>	<u>medium</u>

OT: other threshold
 NHI: No hazard identified
 HU: hazard unknown, no further information necessary



Introduction

- From occup exposure questionnaire – grouping of workplaces, tasks and activities
 - > development 11 **activity classes** (ACs)
- At later stage: change of ‘standard’ substance-specific to workplace-specific approach
- Via WebEx, assign substances and process steps (with ACs) to **workplaces** (WPs)
 - > 10 WPs identified
- Combined exposure to Pt substances possible: ClPt - traces ClPt - solPt - insolub Pt
- Occupational exposure data gathered via questionnaire from companies:
 - 385 values from 6 companies
 - 163 personal and 65 static data points considered



Introduction

Table 9: Analysis of personal air monitoring data [$\mu\text{g solPt}/\text{m}^3$]

#	Workplace	Exposure Category	Physical form*	Counts	Min	Median	GM	GSD	P75	P90	P95	Max
01	WP01	CIpt	DDS	17	0.10	0.67	0.74	3.7	2.91	3.63	4.19	4.72
02	WP01	CIpt	LSSD	3	0.11	0.22	0.21	1.9	0.31	0.36	0.38	0.40
03	WP01	tracesCIpt	all	3	0.02	0.05	0.05	2.2	0.08	0.10	0.11	0.12
04	WP01**	insolPt	all	2	0.01	0.11	0.05	6.9	0.15	0.18	0.19	0.20
05	WP02	CIpt	DDS	14	0.09	0.33	0.42	4.3	1.20	3.25	4.68	5.92
06	WP02**	CIpt	LSS	2	0.01	0.03	0.02	5.1	0.04	0.05	0.05	0.05
07	WP02**	tracesCIpt	DDS	5	<0.01	0.10	0.05	5.8	0.10	0.10	0.10	0.10
08	WP02	insolPt	all	5	0.10	0.10	0.13	1.6	0.13	0.23	0.27	0.30
09	WP03	CIpt	all	21	0.05	0.22	0.24	2.5	0.51	0.68	1.59	1.71
10	WP03**	solPt	all	5	0.39	29.92	15.38	9.4	37.42	107.79	131.24	154.70
11	WP04**	CIpt	LSS	5	0.01	0.02	0.03	8.1	0.20	0.36	0.41	0.46
12	WP04	CIpt	LSSD	3	0.10	0.59	0.39	3.4	0.81	0.95	1.00	1.04
13	WP04	CIpt	LDS	13	0.03	1.00	0.66	5.6	1.90	4.08	5.86	8.08
14	WP04	tracesCIpt	all	2	0.38	0.39	0.39	1.0	0.39	0.40	0.40	0.40
15	WP04**	solPt	all	2	4.81	24.35	14.54	4.8	34.12	39.98	41.94	43.89
16	WP04	insolPt	all	2	0.01	0.02	0.02	1.9	0.03	0.03	0.03	0.03
17	WP06	CIpt	all	4	0.19	1.27	0.80	2.6	1.31	1.33	1.34	1.35
18	WP06***	insolPt	all	1	0.10	0.10	0.10	n.a.	n.a.	n.a.	n.a.	0.10
19	WP07	CIpt	all	6	0.71	1.38	1.94	2.5	3.36	6.38	7.58	8.77
20	WP07**	solPt	all	5	0.04	2.73	2.14	15.6	2.98	55.78	73.39	90.99
21	WP07**	insolPt	all	3	0.10	0.10	0.22	3.8	0.57	0.84	0.94	1.03
22	WP09	CIpt	DDS	6	0.08	2.07	1.02	7.3	3.38	6.53	7.88	9.24
23	WP09	CIpt	LSS	7	<0.01	0.30	0.15	15.9	0.72	1.46	1.93	2.40
24	WP09**	solPt	DDS	3	3.26	30.44	20.39	5.3	57.93	74.43	79.93	85.43
25	WP09	solPt	LSS	2	0.01	0.02	0.02	2.2	0.03	0.03	0.03	0.03
26	WP09	insolPt	all	5	0.01	0.01	0.02	2.9	0.02	0.08	0.10	0.12
27	WP10	CIpt	all	17	0.02	1.37	0.85	5.1	2.39	2.96	6.52	19.00

•••• = value x 1,5
 •••• = value x 2



Shaded cells indicate the selected percentile.

*LSSD=liquid, solution, suspension, damp material; LSS=liquid, solution, suspension, DDS=dry (dusty) solids, LDS=low dusty solids

**Maximum value to be multiplied with a factor of 1.5.

***Maximum value to be multiplied with a factor of 2.



Introduction

- Analogous data: read-across to similar exposure conditions
- Modelled data: in cases where no monitoring or analogous data were available
- Dermal exposure: analogous data from Nickel

- Quantitative (*CIPIt without DNEL/threshold*) vs semi-quantitative (*inhal with 'other toxicol. threshold' available*) vs quantitative assessment (*derma*)





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Discussion draft ES

Issues raised by EBRC

- Undue risks identified

Undue risks have been identified for some CES and exposure categories. These are highlighted in red background colour. These CES need to be refined (see below).

- Occasional high exposure levels for solPt

As per provided hazard conclusion, inhalation exposure to solPt were to be compared with the ACGIH value of 2 µg/m³. Monitoring data for solPt (not ClPt) suggest in some cases rather high exposure levels at up to 150 µg/m³. An APF of > 40 is required to demonstrate safe use here. Please compare estimates 10, 15, 20, 24 reported in Table 9 of the methodology document. These high exposure levels lead to undue risks for some CES for solPt. **In-depth clarification is required with the respective data submitters to resolve this.**

°Data point 10: most likely contamination – suggestion from company to remove!

°Previous highest value = 37,42 µg/m³

°remove 'outliers' where reasonable

°3 other 'critical' points not identified by PMC – request to provide your monitoring data!

°avoid use of MEASE (very conservative estimate) and aim for read-across/analogous data



Issues raised by EBRC

- Combined effects for solPt

It can be seen that the contribution of the dermal route is leading to undue risk in some solPt CES. We strongly suggest generating dermal exposure data in the platinum industry.

- Assessment of background exposure

We believe that an assessment of background exposure should be conducted in order to strengthen the exposure category approach.

- *Apparent incomplete catalyst lifecycle*

For some substances “Formulation of catalysts” uses were nominated. We note that apparently (i) the corresponding use of the catalyst formulation is missing (could be the case if exclusively exported), (ii) the formulation is effectively a chemical transformation or (iii) the formulation represents an artefact that should be deleted for lack of relevance. Feedback on this would be appreciated.



Additional issues...

- Split ESs:
 - 3 CI Pt dossiers: only CI Pt / traces CI Pt vs 2 sol Pt dossiers: no mentioning of CI Pt exposure
 - What with insol Pt (no risk determined)?

	CI Pt	tracesCI Pt	solPt		insolPt
			DHHP	DNOP	
Relevance of EG for sub-CES	yes	yes if not CI Pt	yes if not CI Pt/tracesCI Pt		yes if not CI Pt/traces CI Pt/ solPt
RC required for EG, inhalation route	qualitative	qualitative	semi-quantitative		not needed
EC inhalation,	0.01 µg solPt/m ³ (Monitoring)	0.01 µg solPt/m ³ (Monitoring)	0.01 µg solPt/m ³ (Monitoring)		0.01 µg solPt/m ³ (Monitoring)



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5. AOB



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6. Conclusions



THANK YOU

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