



Availability of information

Summary of responses received by 19 January 2010 COB

Date of preparation: 20 January 2010

Number of responses received: 8

Number of responses expected: 13

Result (cf. Table 1 below)

**Table 1. Type of information available to your company on the Precious Metal Refinables listed below.**

Relevant data or information	Provide the Refinable group number for which you have the relevant data or information	Comments (description or detail)
(M)SDS	3, 4, 7, 8, 9.1, 10	Specific and generic
Analytical data for composition - Precious metal content only	3, 4, 5.1, 7, 8, 9.1, 9.2, 10	- All PMs analysed - ICP
Analytical data for composition - Metals content only	1, 3, 4, 6.1, 7, 8, 9.1, 9.2, 9.3, 10	- Most frequently base metals such as Cu, Fe, Ni, Pb, Zn - Others less (Ca, Ti, Cr, Co, Mn, Bi, Mg) - Semi-quantitative XRF, WD XRF - Sporadic data available sometimes
Analytical data for composition - Metals and non-metals	1, 2, 3, 4, 5.1, 6.1, 7, 8, 9.1, 9.2, 9.3	- Cl-, S2-, phosphate superior to oxide, LOI, etc. - Variable quality - Semi-quantitative XRF, WD XRF
Other analytical data for composition (e.g.: spectroscopic information)**	None	
Speciation data (e.g.: mineralogical characterisation)**	3, 4, 5.1, 7, 8	- Slags: Oxides content by XRD (1997) - Others: XRF on samples that may not be fully representative but may provide some information
Physico-chemical data***	6.1	Relative density
(Bio-)Elution or leaching data**	3	Waste Acceptance Criteria Testing to BS EN 12457
Other tests (e.g.: Transformation / Dissolution, bio-assays, etc.)**	None	
Other information that can assist in identifying hazardous properties, and recommendations about risk management measures**	3, 4, 7, 8, 9.1, 9.2, 10	- PMC project Phase I reports - Governmental and intergovernmental (e.g.: IPCS INCHEM) toxicity summaries Other exposure guidelines (AEGL, TEEL or PAC) - COSHH assessments and Process Operating Procedures provide information on risk management measures

\* List of Refinables group is available below

\*\* Please specify which test or data in the "Comments" column

\*\*\* Please list the REACH endpoints (cf. REACH Annexes VII - X) for which you hold data in the "Comments" column

List of Refinables:

- |   |  |
|---|--|
| 1. Doré   | 8. Residues, precious metal refining cementation and reduction   |
| 2. Matte, precious metal refining                                 | 9.1 Materials for reclaim, PM with or without supports           |
| 3. Slags, precious metal refining                                 | 9.2 Materials for reclaim, PM in bricks, crucibles, trays, etc.  |
| 4. Slimes and sludges, precious metal refining                    | 9.3 Materials for reclaim, Precious Metal production by-products |
| 5.1 Residues, copper-iron-lead-nickel matte, sulfuric acid-insol. | 10. Lead Bullion, Precious Metal Rich                            |
| 5.2 Residues, copper speiss acid leaching                         |  |
| 6.1 Silver (spent) electrolyte                                    |  |
| 6.2 Gold (spent) electrolyte                                      |  |
| 7. Flue dust, precious metal refining                             |  |



PRECIOUS METALS AND RHENIUM CONSORTIUM  
PM Refiners WG face-to-face meeting  
20<sup>th</sup> of January 2010, 9h30 - 16h30  
Chairman: E. Broekaert (Umicore)

*Metals Conference Centre - Zinc room  
Rue du Duc 100 - 1150 Brussels (BELGIUM)*