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Precious Metals and Rhenium Consortium PM Refiners WG brainstorming meeting

Brussels, 7 September 2010
Metals Conference Centre
Rue du Duc 100, B-1150 Brussels



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1. Introduction



Participants



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Johnson Matthey - United Kingdom



Dave Boyd

Johnson Matthey - United Kingdom



Caroline Braibant

EPMF - Belgium



Edwin Broekaert

Umicore - Belgium



Daniela Cholakova

Aurubis - Belgium



Humbulani Dombo

Anglo American - United Kingdom



Paul Frost

Britannia Refined Metals - United Kingdom



Mike Halhead

Anglo Platinum - South Africa



Agnieszka Piechota

KGHM Polska Miedz - Poland



Mike Shepherd

Vale Inco Europe - United Kingdom



Michael Turner-Jones

Lonmin - South Africa



Frederik Verdonck

ARCHE Consulting - Belgium

Chantre Viviers

Heraeus - Germany



Objective



- Clarify any open question on the PM Refinable project



- Focus



- Schedule



- Classification approach



- IUCLID 5 completion



- Will not be addressed today: results of recent T/D or physico-chemical tests + classification proposals



Proposed Agenda



1. Introduction

1. Confidentiality and European Competition Law provisions
2. Tour de table
3. Objective of the day and approval of the Agenda

2. Recap on status of PM Refinables project

3. Preparation for Registration: LR versus non-LR files

4. Minimum substance identification analytical requirements for PM Refinables

5. Overview of IUCLID 5 for UVCB Refinables - live access to IUCLID 5 & Q&A

6. Approach towards classification of PM Refinables - introduction to MECLAS & Q&A

7. AOB, next meetings and concluding remarks

1. Next meeting/conference call: Brussels, 11-12 October 2010



2. Recap on status of PM Refinables project



First steps



- First meeting: Brussels, 12 Dec 2007
- Since... 22 additional meetings and conference calls (i.e. ~ 7 exchanges per year)
 - Most of strategic work done in 2009 thanks to J. Levison's push
 - Technical segment of project tiered by H. Waeterschoot in 2010



Current scope



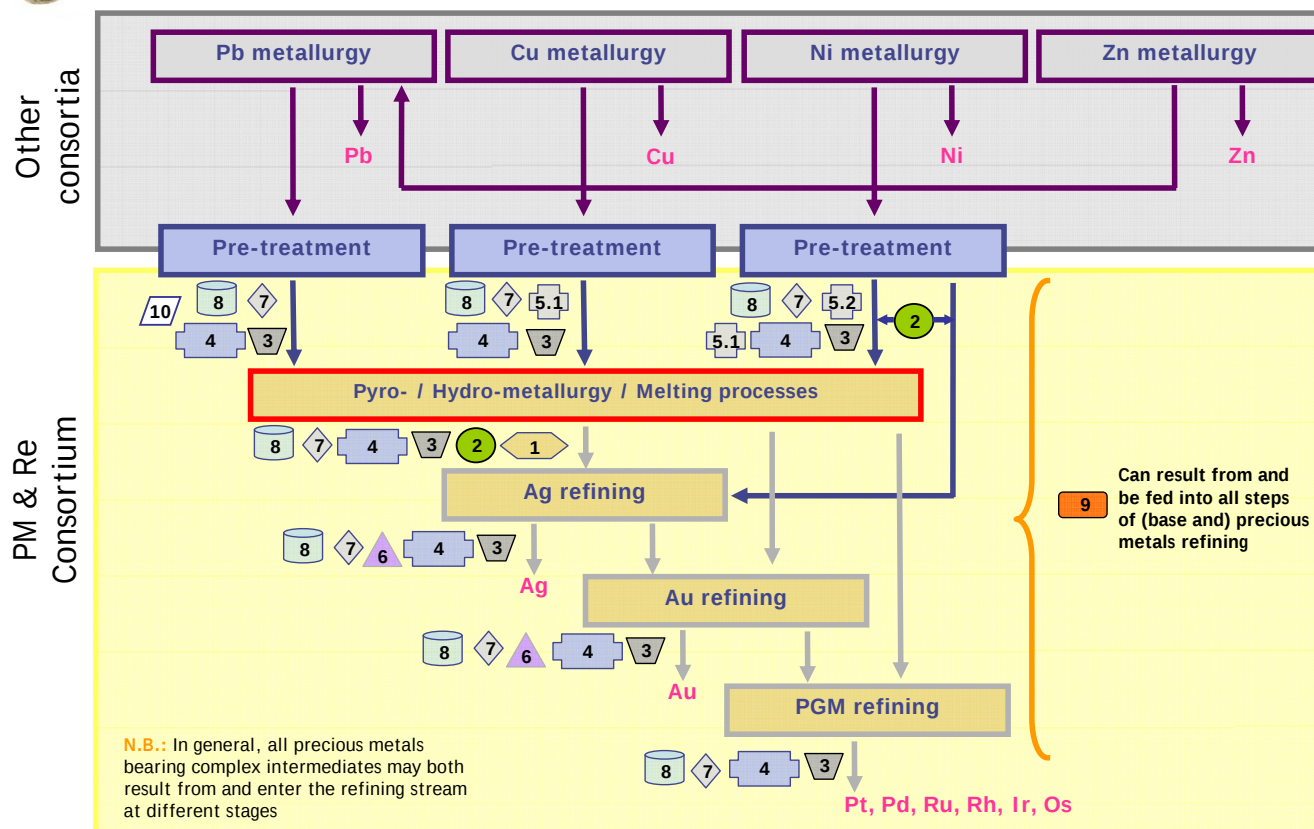
	Status	LR	Registration deadline*
1. Doré	T > 1000	Aurubis	2010
2. Matte, precious metals refining	T > 1000	Umicore	2010
3. Slags, precious metals refining	T > 1000	Umicore	2010
4. Slimes and sludges, precious metals refining	T > 1000	Aurubis	2010
5.1 Residues, matte leaching	T > 1000	Umicore	2010
5.2 Residues, speiss leaching	T 100-1000	Umicore	2013
6.1 Silver electrolyte	OS > 1000	KGHM	2010
6.2 Gold electrolyte	OS 100-1000	Aurubis	2013
7. Flue dust, precious metals refining	T 100-1000	Johnson Matthey	2013
8. Residues, precious metals cementation and reduction	T 100-1000	Heraeus	2013
9.1 Materials for reclaim, PM with or without support	T > 1000	Johnson Matthey	2010
9.2 Materials for reclaim, PM in bricks, crucibles, trays, etc.	T 10-100	Johnson Matthey	2018
9.3 Materials for reclaim, PM production by-products	T 100-1000	Johnson Matthey	2013
10. Pb bullion, PGM rich	OS 10-100	Vale Inco	2018

* excluding impact of classification

For entries in yellow Annex VII info is required – PMC will propose a non-testing approach on the basis of the characterisation and classification method applied



Flow of PM refining streams



Achieved to date



- All Members provided list of individual streams
- Each stream allocated to a PM Refinable group
- Each group evaluated for sameness and some divided into sub-groups
- Each sub-group evaluated for classification with:
 - Characterisation data
 - Data from 24h, 7d and 28 d T/D tests at different loadings
- Composition and T/D results data inserted into MECLAS to derive classification of:
 - Reference samples
 - Each individual stream declared by Members



Remaining work



- Results of last T/D tests performed to confirm classification (or absence of classification)

- Results of physico-chemical tests performed to comply with CLP requirements

- Assembly of classification clusters per Refinable group and sub-group

11-12 October meeting

- Preparation of IUCLID 5 files

Mid-End October

- Submission of IUCLID 5 files by LR

Early November



3. Preparation for Registration



Registration of intermediates



- Articles 17, 18 and 19 of the REACH regulation:
 - If manufactured/imported > 1 t/a → registration
 - If strictly controlled, Dossier shall include:
 - Id of registrant
 - Id of intermediate
 - Classification of intermediate
 - Any available information
 - Brief general description of use
 - Details of the risk management measures applied
 - If strictly controlled and transported > 1000 t/a, Dossier shall also include Annex VII info
 - If not strictly controlled → Full Dossier !!!



Registration of intermediates



- Articles 17, 18 and 19 of the REACH regulation (cont.):
 - Strict control means:
 - Substance is rigorously contained by technical means during its whole lifecycle (including manufacture, purification, cleaning and maintenance of equipment, sampling, analysis, loading and unloading of equipment or vessels, waste disposal or purification and storage)
 - Procedural and control technologies shall be used that minimise emission and any resulting exposure
 - Only properly trained and authorised personnel handle the substance
 - In the case of cleaning and maintenance works, special procedures such as purging and washing are applied before the system is opened and entered
 - In cases of accident and where waste is generated, procedural and/or control technologies are used to minimise emissions and the resulting exposure during purification or cleaning and maintenance procedures
 - Substance-handling procedures are well documented and strictly supervised by the site operator



Registration of intermediates

- Articles 17, 18 and 19 of the REACH regulation:

Requirement	IUCLID section	LR and/or non-LR file?	Who to prepare?
Id of registrant	IUCLID 1.1	LR + non-LR	Each entity
Id of intermediate	IUCLID 1.1 and 1.2	LR + non-LR	PMC: Same generic identification in each file
Classification of intermediate	IUCLID 2	LR	PMC
Any available information	IUCLID 4-7	LR	PMC
Brief general description of use	IUCLID 3.5	LR + non-LR	PMC: Same generic description in each file
Details of the risk management measures applied	IUCLID 11	LR + non-LR	PMC? Same generic RMM in each file



4. Minimum substance identification analytical requirements



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Analytical information

- In IUCLID 5 Section 1.4
- Does not seem mandatory for intermediates according to REACH text
- However, key to substantiate identification and sameness
- Therefore, PMC recommends completing section 1.4 as well
 - **LR:** All analysis performed on reference sample (PMC recommended analysis, characterisation, granulometry, N-BET)
 - **Non-LR:** Analysis performed on entity-specific samples

Cf. PMC recommendations



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PMC Recommendation

- Solids:
 - Elemental analysis (which may include ICP-MS, ICP-OES, XRF, etc.)
 - Granulometry for materials < 1 mm and particle size distribution for materials < 100 µm
 - N-BET in the event classification can be corrected on the basis of surface area data
- Liquids:
 - Elemental analysis (which may include ICP-MS, ICP-OES, XRF, etc.)
 - Raman spectroscopy

Useful notes:

PMC recommendation is recommendation only: analytical work responsibility of each registrant – outside of PMC's scope/liability

Although not a firm legal requirement, justification needs to be provided for those analysis not performed – easier to perform required tests

Although not all test results must be included in Dossier, they must be available upon request from authorities + addition to Dossier is subject to fee



5. Overview of IUCLID 5 for UVCB Refinables



Section 1.1

Navigation

Query results Section tree

REACH Registration member of a joint

0 Related Information

1 General Information

1.1 Identification

1.2 Composition

1.3 Identifiers

1.4 Analytical Information

1.5 Joint submission

1.6 Sponsors

1.7 Suppliers

1.8 Recipients

2 Classification and Labelling

3 Manufacture, use and exposure

4 Physical and chemical properties

5 Environmental fate and pathways

6 Ecotoxicological Information

7 Toxicological Information

8 Analytical methods

11 Guidance on safe use

12 Literature search

13 Assessment Reports

Query results Section tree

REACH Registration member of a joint

0 Related Information

1 General Information

1.1 Identification

1.2 Composition

1.3 Identifiers

1.4 Analytical information

1.5 Joint submission

1.6 Sponsors

Substance: Test / EPMF1 / Brussels / Belgium

Substance identification

Chemical name Test

Public name

Legal entity flags

Legal entity EPMF1 / Brussels / Belgium

Third party flags

Third party

Role in the supply chain

Role flags

Role: ☐ Manufacturer ☐ Importer ☐ Only representative ☐ Downstream user

Reference substance

Reference substance

Type of substance

Composition

Origin

Trade names

Trade names flag

Name

Add... Edit... Delete



Section 1.1 (cont.)



1 General information

- 1.1 Identification
- 1.2 Composition
- 1.3 Identifiers
- 1.4 Analytical information
- 1.5 Joint submission
- 1.6 Sponsors
- 1.7 Suppliers
- 1.8 Recipients

2 Classification and Labelling

3 Manufacture, use and exposure

4 Physical and chemical properties

5 Environmental fate and pathways

6 Ecotoxicological information

7 Toxicological information

8 Analytical methods

11 Guidance on safe use

12 Literature search

13 Assessment Reports

Contact person

Person flags

Organisation

Department

Title

First name

Last name

Phone

Mobile

Fax

E-mail

Address

Address

Postal code

Town

Region / State

Country

Remarks

Information



Section 1.2



Navigation

Query results

Section tree

REACH Registration member of a joint

0 Related Information

1 General Information

- 1.1 Identification
- 1.2 Composition
- 1.3 Identifiers
- 1.4 Analytical information
- 1.5 Joint submission
- 1.6 Sponsors
- 1.7 Suppliers
- 1.8 Recipients

2 Classification and Labelling

3 Manufacture, use and exposure

- 3.1 Technological process
- 3.2 Estimated quantities
- 3.3 Sites
- 3.4 Form in the supply chain
- 3.5 Identified uses
- 3.6 Uses advised against
- 3.7 Waste from production and use
- 3.8 Exposure estimates
- 3.9 Biocidal information

4 Physical and chemical properties

5 Environmental fate and pathways

6 Ecotoxicological information

7 Toxicological information

Substance: Test / EPMF1 / Brussels / Belgium

Substance composition

Name

Brief description

Composition ID: L-a58d01b3-76ae-42d9-b716-ebf82186b7ec

Degree of purity

Constituents

Reference substance

Typical concentration

Concentration range

Remarks



Section 1.2 (cont.)

Query results Section tree

REACH Registration member of a joint

- 0 Related Information
 - 1 General Information
 - 1.1 Identification
 - 1.2 Composition
 - 1.3 Identifiers
 - 1.4 Analytical information
 - 1.5 Joint submission
 - 1.6 Sponsors
 - 1.7 Suppliers
 - 1.8 Recipients
 - 2 Classification and Labelling
 - 3 Manufacture, use and exposure
 - 3.1 Technological process
 - 3.2 Estimated quantities
 - 3.3 Sites
 - 3.4 Form in the supply chain
 - 3.5 Identified uses
 - 3.6 Uses advised against
 - 3.7 Waste from production and use
 - 3.8 Exposure estimates
 - 3.9 Biocidal information
 - 4 Physical and chemical properties
 - 5 Environmental fate and pathways
 - 6 Ecotoxicological Information
 - 7 Toxicological information
 - 8 Analytical methods
 - 11 Guidance on safe use
 - 12 Literature search
 - 13 Assessment Reports

Impurities

Reference substance

Typical concentration

Concentration range

Remarks

☐ this impurity is considered relevant for the classification and labelling of the substance

Additives

Reference substance

Function

Typical concentration

Concentration range

Remarks

☐ this additive is considered relevant for the classification and labelling of the substance



Section 1.3

IUCLID 5.2.0 - Test / EPMF1 / Brussels / Belgium

File Edit Go Window Help Plugins

Navigation

Query results Section tree

REACH Registration transported isolated in

- 0 Related Information
 - 1 General Information
 - 1.1 Identification
 - 1.2 Composition
 - 1.3 Identifiers
 - 1.4 Analytical information
 - 1.5 Joint submission
 - 1.6 Sponsors
 - 1.7 Suppliers
 - 1.8 Recipients
 - 2 Classification and Labelling
 - 3 Manufacture, use and exposure
 - 4 Physical and chemical properties
 - 5 Environmental fate and pathways
 - 6 Ecotoxicological Information
 - 7 Toxicological information
 - 8 Analytical methods
 - 11 Guidance on safe use
 - 12 Literature search
 - 13 Assessment Reports

Identifiers

Regulatory programme identifiers

Flags	Regulatory programme	ID	Remarks
-------	----------------------	----	---------

Add... Edit... Delete

Other IT system identifiers

Flags	IT system	ID	Remarks
-------	-----------	----	---------

Regulatory programme identifier

Add a regulatory programme identifier

Regulatory programme

ID

Remarks

OK

Pick list

Select a regulatory programme

- REACH registration number
- REACH preregistration number
- REACH PPORD notification number
- REACH inquiry number
- REACH authorisation number
- CLP notification number
- notification number (NCD)

OK Cancel

Information



Section 1.4

IUCLID 5.2.0 - Test / EPMF1 / Brussels / Belgium

File Edit Go Window Help Plugins

Navigation

Query results

REACH Registration transported is

0 Related Information

1 General Information

1.1 Identification

1.2 Composition

1.3 Identifiers

1.4 Analytical information

1.5 Joint submission

1.6 Sponsors

1.7 Suppliers

1.8 Recipients

2 Classification and Labelling

3 Manufacture, use and exposure

4 Physical and chemical properties

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6 Ecotoxicological information

7 Toxicological information

8 Analytical methods

11 Guidance on safe use

12 Literature search

13 Assessment Reports

Substance: Test / EPMF1 / Brussels / Belgium

Analytical information

Analytical methods and spectral data

Optical activity

Results of analysis

Analysis type

Tested substance

Method used

Remarks

Information

Switched to edit mode

EPMF1 / Brussels / Belgium

braibant@epmf.be



Section 2 - GHS

IUCLID 5.2.0 - Test / EPMF1 / Brussels / Belgium

File Edit Go Window Help Plugins

Navigation

Query results

REACH Registration transported is

0 Related Information

1 General Information

2 Classification and Labelling

2.1 GHS

2.2 DSD - DPD

3 Manufacture, use and exposure

3.1 Technological process

3.2 Estimated quantities

3.3 Sites

3.5 Identified uses

3.6 Uses advised against

3.7 Waste from production

3.8 Exposure estimates

3.9 Biocidal information

4 Physical and chemical properties

5 Environmental fate and partitioning

6 Ecotoxicological information

7 Toxicological information

8 Analytical methods

11 Guidance on safe use

12 Literature search

13 Assessment Reports

Substance: Test / EPMF1 / Brussels / Belgium

Classification and Labelling according to GHS

General information

Name

Not classified

Implementation

State / form of the substance

Remarks

Related composition

Classification

Physical hazards

Hazard statement

Reason for no classification

Explosives

Flammable gases

Flammable aerosols

Oxidising gases

Gases under pressure

data lacking

data lacking

data lacking

data lacking

data lacking



Section 2 - GHS (cont.)



Query results

REACH Registration transported isoc

0 Related Information

1 General Information

2 Classification and Labelling

2.1 GHS

2.2 DSD - DPD

3 Manufacture, use and exposure

3.1 Technological process

3.2 Estimated quantities

3.3 Sites

3.5 Identified uses

3.6 Uses advised against

3.7 Waste from production

3.8 Exposure estimates

3.9 Biocidal information

4 Physical and chemical properties

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6 Ecotoxicological information

7 Toxicological information

8 Analytical methods

11 Guidance on safe use

12 Literature search

13 Assessment Reports

Flammable liquids			data lacking
Flammable solids			data lacking
Self-reactive substances and mixtures			data lacking
Pyrophoric liquids			data lacking
Pyrophoric solids			data lacking
Self-heating substances and mixtures			data lacking
Substances and mixtures which in contact with water emit flammable gases			data lacking
Oxidising liquids			data lacking
Oxidising solids			data lacking
Organic peroxides			data lacking
Corrosive to metals			data lacking

Health hazards

	Hazard statement	Reason for no classification
Acute toxicity - oral		data lacking
Acute toxicity - dermal		data lacking
Acute toxicity - inhalation		data lacking
Skin corrosion/irritation		data lacking
Serious eye damage/eye irritation		data lacking
Respiratory sensitisation		data lacking
Skin sensitisation		data lacking



Section 2 - GHS (cont.)



Query results

REACH Registration transported isoc

0 Related Information

1 General Information

2 Classification and Labelling

2.1 GHS

2.2 DSD - DPD

3 Manufacture, use and exposure

3.1 Technological process

3.2 Estimated quantities

3.3 Sites

3.5 Identified uses

3.6 Uses advised against

3.7 Waste from production

3.8 Exposure estimates

3.9 Biocidal information

4 Physical and chemical properties

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6 Ecotoxicological information

7 Toxicological information

8 Analytical methods

11 Guidance on safe use

12 Literature search

13 Assessment Reports

Aspiration hazard			data lacking
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Reproductive toxicity

Reproductive toxicity			data lacking
Specific effect			
Route of exposure			
Effects on or via lactation			data lacking

Germ cell mutagenicity

Carcinogenicity

Specific target organ toxicity - single

Specific target organ toxicity - repeated

Specific concentration limits

Environmental hazards

	Hazard statement	Reason for no classification
Hazardous to the aquatic environment		data lacking
Hazardous to the atmospheric environment		data lacking

M-Factor

Additional hazard classes

Additional hazard statements

Information

EPMF1 / Brussels / Belgiu

braibant@epmf.be



Section 3.5

Select picklist values

- ☒ PROC 1: Use in closed process, no likelihood of exposure
- ☐ PROC 2: Use in closed, continuous process with occasional controlled exposure
- ☒ PROC 3: Use in closed batch process (synthesis or formulation)
- ☐ PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises
- ☐ PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
- ☐ PROC 6: Calendaring operations
- ☐ PROC 7: Industrial spraying
- ☐ PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
- ☐ PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
- ☐ PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
- ☐ PROC 10: Roller application or brushing
- ☐ PROC 11: Non industrial spraying
- ☒ PROC 12: Use of blowing agents in manufacture of foam
- ☐ PROC 13: Treatment of articles by dipping and pouring
- ☐ PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation
- ☐ PROC 15: Use as laboratory reagent
- ☐ PROC 16: Using material as fuel sources, limited exposure to unburned product to be expected
- ☐ PROC 17: Lubrication at high energy conditions and in partly open process
- ☐ PROC 18: Greasing at high energy conditions
- ☐ PROC 19: Hand-mixing with intimate contact and only PPE available.
- ☐ PROC 20: Heat and pressure transfer fluids in dispersive, professional use but closed systems
- ☐ PROC 21: Low energy manipulation of substances bound in materials and/or articles
- ☐ PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting
- ☐ PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature
- ☐ PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles
- ☐ PROC 25: Other hot work operations with metals
- ☐ PROC 26: Handling of solid inorganic substances at ambient temperature
- ☒ PROC 27a: Production of metal powders (hot processes)
- ☒ PROC 27b: Production of metal powders (wet processes)

OK Cancel



Section 3.5 (cont.)

Select picklist values

- ☐ ERC 1: Manufacture of substances
- ☐ ERC 2: Formulation of preparations
- ☐ ERC 3: Formulation in materials
- ☐ ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles
- ☐ ERC 5: Industrial use resulting in inclusion into or onto a matrix
- ☒ ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)
- ☐ ERC 6b: Industrial use of reactive processing aids
- ☐ ERC 6c: Industrial use of monomers for manufacture of thermoplastics
- ☐ ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers
- ☐ ERC 7: Industrial use of substances in closed systems
- ☐ ERC 8a: Wide dispersive indoor use of processing aids in open systems
- ☐ ERC 8b: Wide dispersive indoor use of reactive substances in open systems
- ☐ ERC 8c: Wide dispersive indoor use resulting in inclusion into or onto a matrix
- ☐ ERC 8d: Wide dispersive outdoor use of processing aids in open systems
- ☐ ERC 8e: Wide dispersive outdoor use of reactive substances in open systems
- ☐ ERC 8f: Wide dispersive outdoor use resulting in inclusion into or onto a matrix
- ☐ ERC 9a: Wide dispersive indoor use of substances in closed systems
- ☐ ERC 9b: Wide dispersive outdoor use of substances in closed systems
- ☐ ERC 10a: Wide dispersive outdoor use of long-life articles and materials with low release
- ☐ ERC 10b: Wide dispersive outdoor use of long-life articles and materials with high or intended release (including abrasive processing)
- ☐ ERC 11a: Wide dispersive indoor use of long-life articles and materials with low release
- ☐ ERC 11b: Wide dispersive indoor use of long-life articles and materials with high or intended release (including abrasive processing)
- ☐ ERC 12a: Industrial processing of articles with abrasive techniques (low release)
- ☐ ERC 12b: Industrial processing of articles with abrasive techniques (high release)
- ☐ ERC 0: Other:

OK Cancel



Section 3.5 (cont.)

Select picklist values

- ☐ PC 1: Adhesives, sealants
- ☐ PC 2: Adsorbents
- ☐ PC 3: Air care products
- ☐ PC 4: Anti-freeze and de-icing products
- ☒ PC 7: Base metals and alloys
- ☐ PC 8: Biocidal products (e.g. disinfectants, pest control)
- ☐ PC 9a: Coatings and paints, thinners, paint removes
- ☐ PC 9b: Fillers, putties, plasters, modelling clay
- ☐ PC 9c: Finger paints
- ☐ PC 11: Explosives
- ☐ PC 12: Fertilisers
- ☐ PC 13: Fuels
- ☐ PC 14: Metal surface treatment products, including galvanic and electroplating products
- ☐ PC 15: Non-metal-surface treatment products
- ☐ PC 16: Heat transfer fluids
- ☐ PC 17: Hydraulic fluids
- ☐ PC 18: Ink and toners
- ☒ PC 19: Intermediate
- ☐ PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents
- ☐ PC 21: Laboratory chemicals
- ☐ PC 23: Leather tanning, dye, finishing, impregnation and care products
- ☐ PC 24: Lubricants, greases, release products
- ☐ PC 25: Metal working fluids
- ☐ PC 26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids
- ☐ PC 27: Plant protection products
- ☐ PC 28: Perfumes, fragrances

OK Cancel



Section 3.5 (cont.)

Select picklist values

- ☒ SU 1: Agriculture, forestry and fishing
- ☐ SU 2a: Mining (without offshore industries)
- ☐ SU 2b: Offshore industries
- ☐ SU 4: Manufacture of food products
- ☐ SU 5: Manufacture of textiles, leather, fur
- ☐ SU 6a: Manufacture of wood and wood products
- ☐ SU 6b: Manufacture of pulp, paper and paper products
- ☐ SU 7: Printing and reproduction of recorded media
- ☐ SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)
- ☒ SU 9: Manufacture of fine chemicals
- ☐ SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- ☐ SU 11: Manufacture of rubber products
- ☐ SU 12: Manufacture of plastics products, including compounding and conversion
- ☐ SU 13: Manufacture of other non-metallic mineral products, e.g. plasters, cement
- ☒ SU 14: Manufacture of basic metals, including alloys
- ☐ SU 15: Manufacture of fabricated metal products, except machinery and equipment
- ☐ SU 16: Manufacture of computer, electronic and optical products, electrical equipment
- ☐ SU 17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
- ☐ SU 18: Manufacture of furniture
- ☐ SU 19: Building and construction work
- ☐ SU 20: Health services
- ☐ SU 23: Electricity, steam, gas water supply and sewage treatment
- ☐ SU 24: Scientific research and development
- ☐ SU 0: Other:

OK Cancel



Section 3.5 (cont.)

Select picklist values

☐ AC 1: Vehicles

☐ AC 2: Machinery, mechanical appliances, electrical/electronic articles

☐ AC 3: Electrical batteries and accumulators

☐ AC 4: Stone, plaster, cement, glass and ceramic articles

☐ AC 5: Fabrics, textiles and apparel

☐ AC 6: Leather articles

☒ AC 7: Metal articles

☐ AC 8: Paper articles

☐ AC 10: Rubber articles

☐ AC 11: Wood articles

☐ AC 13: Plastic articles

☐ AC 31: Scented clothes

☐ AC 32: Scented eraser

☐ AC 34: Scented toys

☐ AC 35: Scented paper articles

☐ AC 36: Scented CD

☐ AC 38: Packaging material for metal parts, releasing grease/corrosion inhibitors

☐ AC 0: Other:

☐ AC 01: Other (non intended to be released):

☐ AC 02: Other (intended to be released):

OK **Cancel**



Section 3.5 (cont.)

Use by workers in industrial setting

Add another use by worker in industrial setting

IU number

Identified use name

Process category

Environmental release category

Substance supplied to that use in form of

Market sector by type of chemical product

Sector of end use

Subsequent service life relevant for that use?

Article category related to subsequent service life

Exposure scenario reference in the CSR

OK **Cancel**



Section 3.5 (cont.)

IUCLED 5.2.0 - Test / EPMF1 / Brussels / Belgium

File Edit Go Window Help Plugins

Navigation

Query results Secti...

REACH Registration transported is

0 Related Information

1 General Information

- 1.1 Identification
- 1.2 Composition
- 1.3 Identifiers
- 1.4 Analytical information
- 1.5 Joint submission
- 1.6 Sponsors
- 1.7 Suppliers
- 1.8 Recipients

2 Classification and Labelling

3 Manufacture, use and exposure

- 3.1 Technological process
- 3.2 Estimated quantities
- 3.3 Sites
- 3.5 Identified uses**
- 3.6 Uses advised against
- 3.7 Waste from production
- 3.8 Exposure estimates
- 3.9 Biocidal information

4 Physical and chemical properties

5 Environmental fate and partitioning

6 Ecotoxicological information

7 Toxicological information

8 Analytical methods

11 Guidance on safe use

12 Literature search

13 Assessment Reports

Identified uses

Information on uses

Uses by workers in industrial settings

Identified use name	Process category	Environmental ...	Substance sup...	Market sector ...	Sector of end ...	Subsequent se...	Article categor...
Intermediate	PROC 1: Use in c	ERC 6a: Industri	As such	PC 7: Base metal	SU 9: Manufactur	PC 19: Intermedi	SU 14: Manufact
	PROC 3: Use in c						
	PROC 27a: Produ						
	PROC 27b: Produ						

Add... Edit... Delete

Uses by professional workers

Flags	IU number	Identified u...	Process cat...	Environmen...	Substance s...	Market sect...	Sector of en...	Subsequent...	Article cate...	Ex
-------	-----------	-----------------	----------------	---------------	----------------	----------------	-----------------	---------------	-----------------	----

Add... Edit... Delete

Information

EPMF1 / Brussels / Belgium braibant@epmf.be



Section 3.5 (cont.)

IUCLED 5.2.0 - Test / EPMF1 / Brussels / Belgium

File Edit Go Window Help Plugins

Navigation

Query results Secti...

REACH Registration transported is

0 Related Information

1 General Information

- 1.1 Identification
- 1.2 Composition
- 1.3 Identifiers
- 1.4 Analytical information
- 1.5 Joint submission
- 1.6 Sponsors
- 1.7 Suppliers
- 1.8 Recipients

2 Classification and Labelling

3 Manufacture, use and exposure

- 3.1 Technological process
- 3.2 Estimated quantities
- 3.3 Sites
- 3.5 Identified uses**
- 3.6 Uses advised against
- 3.7 Waste from production
- 3.8 Exposure estimates
- 3.9 Biocidal information

4 Physical and chemical properties

5 Environmental fate and partitioning

6 Ecotoxicological information

7 Toxicological information

8 Analytical methods

11 Guidance on safe use

12 Literature search

13 Assessment Reports

Uses by consumers

Flags	IU number	Identified u...	Chemical pr...	Environmen...	Subsequent...	Article cate...	Exposure s...
-------	-----------	-----------------	----------------	---------------	---------------	-----------------	---------------

Add... Edit... Delete

Closed system

☒ all identified uses take place in closed system

Justification why no identified uses are reported

Technical function of substance (what it does)

Remarks

Significant routes of exposure

Human exposure

Information

EPMF1 / Brussels / Belgium braibant@epmf.be



Section 11

IUCLED 5.2.0 - Test / EPMF1 / Brussels / Belgium

File Edit Go Window Help Plugins

Navigation

Query results

REACH Registration transported isoc

0 Related Information

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Additional information: Guidance on safe use.001

Detail level

all fields

Administrative Data

Administrative Data

First-aid measures

Fire-fighting measures

Accidental release measures

Handling and storage

Transport information



Section 11 (cont.)

0 Related Information

1 General Information

2 Classification and Labelling

3 Manufacture, use and exposure

3.1 Technological processes

3.2 Estimated quantities

3.3 Sites

3.5 Identified uses

3.6 Uses advised against

3.7 Waste from production

3.8 Exposure estimates

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Guidance on safe use.0

Land transport (ADR/RID/)

UN number

Class

Classification code

Packaging group

Labels

Inland waterway transport (AND(R))

UN number

Class

Classification code

Packaging group

Labels

Remarks



Section 11 (cont.)



0 Related Information
1 General Information
2 Classification and Labelling
3 Manufacture, use and exposure
4 Physical and chemical properties
5 Environmental fate and partitioning
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13 Assessment Reports

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1 General Information
2 Classification and Labelling
3 Manufacture, use and exposure
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Guidance on safe use.0

Marine transport (IMDG)

UN number

Proper shipping name and description

Chemical name

Class

Packaging group

EmS number

Labels

Marine pollutant

Remarks

Air transport ICAO/IATA

UN number

Proper shipping name and description

Chemical name

Class



Section 11 (cont.)



0 Related Information
1 General Information
2 Classification and Labelling
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12 Literature search
13 Assessment Reports

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1 General Information
2 Classification and Labelling
3 Manufacture, use and exposure
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Guidance on safe use.0

Packaging group

Labels

Remarks

Additional transport information

Exposure controls / personal protection

Stability and reactivity

Disposal considerations

Information

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Ag



Au



Ir



Os



Pd



Pt



Re



Rh



Ru

6. Approach towards classification of PM Refinables - introduction to MECLAS & Q&A

See separate slide set



Ag



Au



Ir



Os



Pd



Pt



Re



Rh



Ru

Underlying principles to classification: questions from participants (1)

- ERV: Eco-Toxicity Reference Value
- TRV: Toxicity Reference Value
 - **What are they?** Levels at which a given substance has shown toxicity
 - **Who derives them?** WCA, on the basis of published literature + NFM consortia, who share this for the purpose of creating MECLAS
 - **How are they derived?** All available data is screened for quality, the lowest toxicity level reported in good datasets is used as reference



Underlying principles to classification: questions from participants (2)



Ag



Au



Ir



Os



Pd



Pt



Re



Rh



Ru

- Cutt-off limits:
 - Result of specific calculation rule
 - Refer to ARCHE's one pager



Underlying principles to classification: questions from participants (3)



Ag



Au



Ir



Os



Pd



Pt



Re



Rh



Ru

- DSD: Dangerous Substances Directive (now REACH)
- DPD: Dangerous Preparations Directive (now indirectly REACH through registration (and classification) of individual components)
- CLP/GHS: Classification, Labelling and Packaging Directive (previously “embedded” in DSD)
 - Part of Globally Harmonised System for Classification and Labelling of Substance worldwide



Underlying principles to classification: questions from participants (3 cont.)



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Au



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Os



Pd



Pt



Re



Rh



Ru

- If placed on the market before 1 Dec 2010 → can continue using existing DSD classification (if any) until 1 Dec 2012
 - But PM Refinables were not classified so far
 - Classification is result of REACH and CLP work
 - Recommendation: if no SDS existed (some companies had self-classifications in place), include CLP classification in newly generated SDS



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Os



Pd



Pt



Re



Rh



Ru

6. AOB, next meeting and concluding remarks



Ag



Au



Ir



Os



Pd



Pt



Re



Rh



Ru

Next meeting

- Brussels, 11-12 October 2010



Ag



Au



Ir



Os



Pd



Pt



Re



Rh



Ru

Thank you!

See you in October