GROUP 9.1 Materials for reclaim - PM with or without supports

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(**N.B.:** The content of this ID Card may be adjusted as the Refiners Project develops)

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1. Identification of the group

Table 1. Identification of the group

	Proposed by PMC Refiners Work Group	Pre-registered as (EC inventory)
Name	Materials for reclaim, PM with or without supports	Waste solids, precious metal refining
EC number	Request new EC number at Registration (cf. section 6 below)	308-526-5
CAS number		98072-70-9
Description	Secondary sources of precious metals with or without: □ ceramic (such as silica, alumina, zeolite), □ carbon-, organic- (such as carbon, paper, plastics), and/or □ Metallic- (such as stainless steel) based supports, resulting from the application of end-of-life criteria and from the application of thermal or thermo-chemical processes on secondary feeds.	None

N.B.: The description proposed above will be further detailed by PMC for Registration purposes.

2. Synonyms (and/or commercial names)

- Spent (auto-)catalysts;
- Materials arising from industrial, electronic, dentistry, jewellery, and other applications;
- Photographic film;
- Spent fuel cells, etc.

3. Substances that are similar or can be considered as the same

None

4. Usual composition

Table 2. Usual composition

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Type	Name of the element	Symbol	Species present *(one line per species)*	Most recent classification of species	Source	Usual concentration range (%)
Precious metals	Silver	Ag	Metallic or oxidic	None	GHS/CLP	0-85
	Gold	Au	Metallic or oxidic	None	GHS/CLP	0-85
	Platinum Group Metals	PGM	Metallic or oxidic	None	GHS/CLP	0-85
Other metals	Aluminium	Al	Al2O3	None	GHS/CLP	0-99
	Antimony	Sb		Likely to be classified		0-10
	Arsenic	As		Carc. Cat. 1; R45; T+; R28; C; R34; N; R50-53	GHS/CLP	0-10
	Barium	Ba		None	GHS/CLP	0-40
	Bismuth	Bi		None	GHS/CLP	0-22
	Boron	B		None	GHS/CLP	0-10
	Cadmium	Cd		R: 45-26-48/23/25-62-63-68-50/53	GHS/CLP	0-10
	Calcium	Ca		F; R15	GHS/CLP	0-25
	Cerium	Ce		None	GHS/CLP	0-8
	Chromium	Cr		R: 49-43-50/53	GHS/CLP	0-30
	Cobalt	Co		R: 42/43-53	GHS/CLP	0-32
	Copper	Cu		Xn; R22; N; R50-53	GHS/CLP	0-70
	Lanthanum	La2O3		None	GHS/CLP	0-0,5
	Lead	Pb		Repr. Cat. 1; R61 - Repr. Cat. 3; R62 - Xn; R20/22 - R33 - N; R50-53	GHS/CLP	0-44
	Lead chloride			Repr. Cat. 1; R61 - Repr. Cat. 3; R62 - Xn; R20/22 - R33 - N; R50-53	GHS/CLP	0-30
	Iron	Fe		None	GHS/CLP	0-50
	Magnesium	Mg	MgCl	None	GHS/CLP	0-15
	Manganese	Mn		None	GHS/CLP	0-10
	Molybdenum	Mo		None	GHS/CLP	0-10
	Nickel	Ni		Carc. 2; STOT RE 1; Skin Sens. 1	GHS/CLP	0-65
	Niobium	Nb		None	GHS/CLP	0-10
	Phosphorus	P		R: 11-16-52/53	GHS/CLP	0-30
	Potassium	K		R: 14/15-34	GHS/CLP	0-10
	Selenium	Se		R: 23/25-33-53	GHS/CLP	0-30
	Silicon	Si	SiO2	None	GHS/CLP	0-99
	Strontium	Sr		None	GHS/CLP	0-0,2
	Sulphur	S	Sulphides	None	GHS/CLP	0-60
	Tallium	Tl		None	GHS/CLP	0-5
	Tantalum	Ta		None	GHS/CLP	0-20
	Tellurium	Te		None	GHS/CLP	0-32
	Tin	Sn		None	GHS/CLP	0-26
	Titanium	Ti	TiO2	None	GHS/CLP	0-45
	Tungsten	W		None	GHS/CLP	0-88
	Zinc	Zn		N; R50-53	GHS/CLP	0-64
	Zirconium	Zr	ZrO2	R: 15-17	GHS/CLP	0-80
Other constituents	Carbon	C		None	GHS/CLP	0-95
	Chlorine	Cl		T; R23 - Xi; R36/37/38 - N; R50	GHS/CLP	0-40
	Water	H2O		None	GHS/CLP	0-50

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Type	Name of the element	Symbol	Species present *(one line per*	Most recent classification of species	Source	Usual concentration range (%)
	Mixed solvents					0-50

The composition given above represents the usual elemental content available to the Members of the Consortium by 7 of December 2009. This usual content represents the majority of the Reclaimed Materials containing Precious Metals with and without support that are placed on the EEA market.

Concentration ranges outside the ones given above do not exclude sameness and are usually referred to as unusual or exceptional situations. Each potential registrant is responsible for performing its own elemental analysis (PMC will specify preferred method in due course).

5. Classification (*additive - based on composition provided in table 2 above*)

To be completed

6. Basic physico-chemical characteristics and properties

Table 3. List of physico-chemical characteristics of the substance to facilitate sameness confirmation

Characteristic	Description/value	Comment
Physical state (solid, liquid, gaseous)		
Physical form (Aerosol, Compact, Crystalline, Dispersion, Fibre, Filaments, Flakes, Liquified gas, Particulates, Paste, Pellets, Powder, Suspension, Viscous, Refrigerated Liquid, Other)		
Usual particle size range(s) (D10, D50, D90 in nm, µm or mm)		
Colour		
Odour (Ammonia-like, Biting, Characteristic of sulfur-containing compounds, Characteristic of aromatic compounds, Faint, Garlic-like, Pungent, Slight, Sweetish, Odourless, Other)		
Substance type (Element, Inorganic, Natural substance, Organic, Organometallic, Petroleum Product)		
Water solubility		
Relative density (g/cm^3) **or specific gravity**		
Specific surface area (m^2/g)		

7. Lead Registrant

Johnson Matthey volunteers to be the Lead Registrant for this intermediate.

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8. REACH Strategy

Table 4. REACH strategy for the group (basis for REACH Registration preparation)

Subject	Description	Comment
SIEF	new/sub-SIEF	Need to split SIEF 308-526-5 in three, including one sub-SIEF for Materials for reclaim, PM with or without support. Requires sameness discussion in pre-SIEF, split "Waste solids, precious metal refining" SIEF, creating an *ad hoc* SIEF, and linking registration under a new EC number with previous EC number through pre-registration number. The new EC number will be requested in parallel with the registration dossier submission, and not before.
REACH category	UVCB	
Intermediate status	Transported	At least one Member of the PMC has declared this material as transported > 1000 t/a. This will be considered as the reference to produce the Dossier as other forms (on-site and/or below 1000 t/a are covered by the requirements of transported > 1000 t/a).
Tonnage band	> 1000	
Information requirements	Available + Annex VII	
(Likely) Classification	Carc. Cat. 1, Repr. Cat 1, R50-53	Depends on confirmation of composition/species.
Resulting registration deadline	2010	
Other		

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