



GROUP 1. Doré
Version 22 January 2010

(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	Original (in EC inventory)
Name	Doré	Doré
EC number	273-793-6	273-793-6
CAS number	69029-47-6	69029-47-6
Description	Metallic bars/ingots, grains or anodes and their residues (spent anodes) resulting from pyrometallurgy processes applied on primary and secondary feeds with high precious metal content. Doré mainly contains silver and/or gold and copper, lower quantities of platinum group metals (iridium, osmium, palladium, platinum, rhodium, and ruthenium) and other non-ferrous metals.	Gold and silver bullion

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

2. Synonyms (and/or commercial names)

- Doré bars
- Doré alloys
- Precious metal rich bullion

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

Table 2. Similar/same substances belonging to the group

Name	EC number	CAS number	Description (EC inventory)
Residues, silver-refining	308-309-5	97926-88-0	Product resulting from the smelting, refining and/or use of silver and its alloys obtained from primary and secondary sources and including recycled plant intermediates. It consists primarily of silver and may contain other residual non-ferrous metals and their compounds.



Name	EC number	CAS number	Description (EC inventory)
Black metal, copper electrolytic slime smelting	266-974-6	67711-97-1	Slimes from electrolytic cells are smelted in a cupel, producing 'black' metal and a slag. The 'black' metal contains silver as a major constituent with significant amounts of tellurium and selenium and minor amounts of copper, gold and other metals.

N.B.: No registration dossier will be prepared by the PMC for the materials listed in the above table. PMC Members are recommended to register their material using the identifiers provided in Table 1, for which a dossier will be prepared by the PMC.

Because of its generic name, “Residues, silver refining” in Table 2 above has been used to pre-register many different materials under REACH. Only those materials that are of metallic nature and have a composition similar to the one described below can be considered to be the same as Doré.

4. Usual composition

Table 3. Usual composition (obtained by ICP-OES and XRF)

Type	Name of the element	Symbol	Species present (one line per species)	Most recent classification of species	Source of classification	Usual concentration range (%)
Precious metals	Silver	Ag	Metallic	None	GHS/CLP	25-99,55
	Gold	Au	Metallic	None	GHS/CLP	0-99
	Platinum Group Metals	PGM	Metallic	None	GHS/CLP	0-20
Other metals	Antimony	Sb	Metallic	None	GHS/CLP	0-12
	Arsenic	As	As2O3?	Carc. Cat. 1; R45; T+; R28; C; R34; N; R50-53	GHS/CLP	0-1
			As2O5?	Carc. Cat. 1; R45; T; R23/25; N; R50-53	GHS/CLP	
	Bismuth	Bi		None	GHS/CLP	0-6
				Carc. Cat. 2; R45; Muta. Cat. 3; R68; Repr. Cat. 3; R62-63; T+; R26; T; R48/23/25; N; R50-53	GHS/CLP	
	Cadmium	Cd	Metallic?			0-0,5
	Copper	Cu	Metallic	None	GHS/CLP	0-35
	Lead	Pb	Metallic	None	GHS/CLP	0-10
	Iron	Fe	Metallic	None	GHS/CLP	0-5
	Magnesium	Mg		F; R15-17	ESIS	0-4
	Nickel	Ni	Metallic?	Carc. 2; STOT RE 1; Skin Sens. 1	GHS/CLP	0-15
	Selenium	Se	Metallic?	T; R23/25; R33; R53	GHS/CLP	0-5
	Tellurium	Te	Metallic	None	GHS/CLP	0-8
Tin	Sn	Metallic	None	GHS/CLP	0-7	
Zinc	Zn	Metallic	F; R15-17 - N; R50-53	ESIS	0-5	

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 Doré that is placed on the EEA market, which may also carry incorporated drosses and residues in the form of impurities. Concentration ranges outside the ones given above do not exclude sameness and are usually referred to as unusual or exceptional situations. For instance, concentrations higher than 65% copper, 10% of lead, 50% of iron, and 5% of zinc have been declared by some Members of the Consortium. 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 4. 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, Organo-metallic, Petroleum Product)		
Water solubility		
Relative density (g/cm ³) or specific gravity		
Specific surface area (m ² /g)		

7. Lead Registrant

Aurubis volunteers to be the Lead Registrant for this intermediate.

8. REACH Strategy

Table 5. REACH strategy for the group (basis for REACH Registration preparation)

Subject	Description	Comment
SIEF	As pre-registered	
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	Available + Annex VII	



requirements		
(Likely) Classification	Carc. Cat. 1, Mut. Cat. 3, Repr. Cat. 3 and R50-53	Depends on confirmation of composition/species. If it contains residues of dross, this will influence the classification.
Resulting registration deadline	2010	
Other		