



Inventory of **refinables** groups by 8 February 2016

Group	Name	EC and CAS numbers	Covering	EC and CAS numbers	Type of registration dossier prepared by EPMF	Highest tonnage band	Registration deadline*	Lead Registrant	Classification as included in the REACH dossiers
1	Doré	273-793-6; 69029-47-6	Residues, silver refining	308-309-5; 97926-88-0	Non-SCC intermediate	> 1000	2010	Aurubis	No classification
			Black metal, copper electrolytic slime smelting	266-974-6; 67711-97-1					Repro. 1A, ENV Ch 3 Repro. 1A, STOT Rep 2, ENV Ch 3 Carc. 2, Repro. 1A, STOT Rep 2, Skin sens. 1, ENV Ch 3 Carc. 2, Repro. 1A, STOT Rep 2, Skin sens. 1, Acute tox oral 4, ENV Ch 2
2	Matte, PM	308-506-6; 98072-52-7	N/A	N/A	Non-SCC intermediate	100-1000	2010	Glencore Nikkelverk AS	Carc. 1B, Repro. 1A, STOT Rep 2 (driver: CdS), ENV Ch 2 Carc. 2, Repro. 1A, STOT Rep 1 (driver: Ni), ENV Ch 2, Skin sens. 1 Carc. 2, Repro. 1A, STOT Rep 1 (driver: Ni), ENV Ac 1, ENV Ch 1, Skin sens. 1, Acute tox oral+inh 4
3	Slags, PM refining	308-515-5; 98072-60-7	Slags, silver-smelting	308-315-8; 97926-95-9	Non-SCC intermediate	> 1000	2010	Umicore	ENV Ac 1, ENV Ch 1, STOT Rep 1, Repro. 1A, Carc. 1A, Skin sens. 1, Eye dam. 1, Skin corr/irr 1B, Acute tox oral 3, Acute tox inh 4
			Slags, dore furnace	266-975-1; 67711-98-2					ENV Ac 1, ENV Ch 1, STOT Rep 1, STOT Se 3, Repro. 1A, Carc. 1A, Eye dam. 1, Skin corr/irr 2
			Slags, precious metal recovery lead refining	273-826-4; 69029-85-2					
4	Slimes and sludges, PM refining	308-516-0; 98072-61-8	Residues, silver sludge-electrolysis zinc-pptd., precious metal-contg.	309-641-3; 100656-52-8	Non-SCC intermediate	> 1000	2010	Aurubis	ENV Ac 1, ENV Ch 1
			Slimes and Sludges, copper pickling wastewater treatment	293-678-4; 91081-71-9					ENV Ac 1, ENV Ch 1, Acute tox oral 4, Skin sens 1
			Leach residues, precious metal smelting scrap	309-770-5; 100995-79-7					ENV Ac 1, ENV Ch 1, Acute tox oral+inh 4, Skin corr/irr 2, Eye dam. 2, Resp/skin sens 1, Muta 2, Carc. 1A, STOT Rep 1 (driver: NiCl ₂ or Pb comp) ENV Ac 1, ENV Ch 1, Acute tox oral 3, Acute tox inh 4, Skin corr 1A, Eye dam. 1, Resp/skin 1, Muta 1B, Carc. 1A, Repro. 1A, STOT Rep 1 (driver: Pb comp)
5.1	Matte leaching residue	310-050-8; 102110-49-6	N/A	N/A	Non-SCC intermediate	> 1000	2010	Umicore	Carc. 1A, Repro. 1A, Muta 2, STOT Rep 1, ENV Ac 1, ENV Ch 1, Resp/Skin sens. 1, Skin corr. 2, Acute tox oral 3, Eye dam. 1 Carc. 1A, Repro. 1A, Muta 2, STOT Rep 1, ENV Ac 1, ENV Ch 1, Resp/Skin sens. 1, Skin corr. 2, Acute tox oral 3, Eye irrit. 2 Carc. 1A, Repro. 1A, Muta 2, STOT Rep 1, ENV Ac 1, ENV Ch 1, Resp/Skin sens. 1, Skin corr. 2, Eye dam. 1, Acute tox oral 3, Acute tox inh 4
5.2	Speiss leaching residue	309-643-4; 100656-54-0	N/A	N/A	REACH exempt	-	2010	Umicore	Skin irr 2, Eye Dam 1, Carc. 1A, Repro. 1A, Muta 2, STOT Rep 2, ENV Ac 1, ENV Ch 1, Skin sens. 1, Acute tox oral+inh 4
6.1	Ag electrolyte	931-506-8; none	N/A	N/A	SCC intermediate (transported)	> 1000	2010	KGHM	Repro. 1A, STOT Rep 1, ENV Ac 1, ENV Ch 1, Skin corr. 1B, Eye dam. 1, Skin sens 1 Acute tox oral 4, ENV Ac 1, ENV Ch 1, Skin corr. 1B, Eye dam. 1, Skin sens 1, STOT Rep 2
6.2	Au electrolyte	933-944-5; none	N/A	N/A	SCC intermediate (transported)	10-100	2013	Aurubis	ENV Ac 1, ENV Ch 1, Skin corr 1A, Resp/Skin sens. 1, Eye dam. 1, Acute tox oral+inh 4
7	Flue dust, PM refining	308-496-3; 98072-44-7	Flue dust, silver-refining	308-276-7; 97926-57-3	Non-SCC intermediate	100-1000	2010	Johnson Matthey	Skin sens 1, Carc. 1A, Repro. 1A, STOT Rep 1, ENV Ac 1, ENV Ch 1 Acute tox oral+inh 4, Skin corr/irr 1B, Eye dam. 1, Skin sens 1, Carc. 1A, Repro. 1A, STOT Rep 1, ENV Ac 1, ENV Ch 1 Acute tox oral+inh 3, Skin corr/irr 1B, Eye dam. 1, Resp/Skin sens 1, Carc. 1A, Muta 1B, Repro. 1A, STOT Rep 1, ENV Ac 1, ENV Ch 1
8	Residues cementation and reduction, PM refining	310-051-3; 102110-50-9	N/A	N/A	Non-SCC intermediate	100-1000	2010	Heraeus	Acute tox oral+inh 4, Skin sens 1, ENV Ac 1, ENV Ch 1, STOT Rep 2 Acute tox oral+inh 3, Skin 1B, Eye dam. 1, Resp/skin sens 1, Muta 2, Repro. 1A, Carc. 1A, STOT SE 3, STOT Rep 1, ENV Ac 1, ENV Ch 1
9.1	Materials for reclaim, PM with or without support	308-526-5; 98072-70-9	N/A	N/A	Non-SCC intermediate	100-1000	2010	Johnson Matthey	Carc. 1A, Repro. 1A, ENV Ac 1, ENV Ch 1 Acute tox oral 4, Acute tox inh 4, Resp/skin sens 1, Carc. 1A, Repro. 1A, STOT Rep 2, ENV Ac 1, ENV Ch 1 Acute tox oral 4, Acute tox inh 3, Resp/skin sens 1, Carc. 1A, Repro. 1A, Muta 2, STOT Rep 1, ENV Ac 1, ENV Ch 1
9.2	Materials for reclaim, PM in bricks, crucibles, trays, etc.	931-674-2; None	N/A	N/A	Non-SCC intermediate	100-1000	2010	Johnson Matthey	ENV Ch 3 Carc. 1A, Repro. 1A, STOT Rep 1 (driver: Pb comp), ENV Ac 1, ENV Ch 1 Acute tox inh+oral 4, Skin sens 1, Carc. 1A, Repro. 1A, STOT Rep 1 (driver: NiO), ENV Ac 1, ENV Ch 1
9.3	Materials for reclaim, PM production by-products	931-663-2; None	N/A	N/A	Non-SCC intermediate	100-1000	2010	Johnson Matthey	No classification Carc. 2, Repro. 1A, STOT Rep 2 (driver: Ni or Pb), ENV Ac 1, ENV Ch 1, Skin sens. 1 Carc. 2, Repro. 1A, STOT Rep 1 (driver: Ni or Pb), ENV Ac 1, ENV Ch 1, Skin sens. 1, Acute tox oral+inh 4 Carc. 2, STOT Rep 2 (driver: Ni), ENV Ac 1, ENV Ch 1, Resp/Skin sens. 1
10	Lead bullion, PGM rich	931-607-7; none	N/A	N/A	Non-SCC intermediate	10-100	2010	Vale	Carc. 2, Repro. 1A, STOT Rep 1 (driver: Ni or Pb), ENV Ac 1, ENV Ch 1, Skin sens. 1, Acute tox oral 4

* In light of Dec 2010 ECHA Guidance on intermediates, EPMF has reviewed which Art 17/18 files submitted in 2010 required to be upgraded to Article 10 files. Tools and strategies suitable for UVCB intermediates have been developed, discussed and validated with Eurométaux