

Table 1. Inventory of refinables groups (June 2020)

Group	Name	EC and CAS numbers	Type of registration dossier prepared by EPMF	Highest tonnage band	Registration deadline	First submission date	Update date	Lead Registrant	Classification as included in the REACH dossiers	
1	Doré	273-793-6; 69029-47-6	Non-SCC intermediate	> 1000	2010	Nov 2010	Apr 2014	Aurubis	1	No classification
									2	Repro. 1A, ENV Ch 3
									3	Repro. 1A, STOT Rep 2, ENV Ch 3
									4	Carc. 2, Repro. 1A, STOT Rep 2, Skin sens. 1, ENV Ch 3
									5	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	Non-SCC intermediate	100-1000	2010	Nov 2010	Apr 2014	Glencore Nikkelverk AS	1	Carc. 1B, Repro. 1A, STOT Rep 2 (driver: CdS), ENV Ch 2
									2	Carc. 2, Repro. 1A, STOT Rep 1 (driver: Ni), ENV Ch 2, Skin sens. 1
									3	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	Non-SCC intermediate	> 1000	2010	Nov 2010	Apr 2014	Umicore	1	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
									2	ENV Ac 1, ENV Ch 1, STOT Rep 1, STOT Se 3, Repro. 1A, Carc. 1A, Eye dam. 1, Skin corr/irr 2
3.1	Slags, doré furnace	266-975-1; 67711-98-2	Non-SCC intermediate	> 1000	N/A	Scheduled 2021		Umicore		
3.2	Slags, production of PM containing materials other than doré	308-515-5; 98072-60-7	Non-SCC intermediate	> 1000	N/A	Scheduled 2021		Umicore		
4	Slimes and sludges, PM refining*	308-516-0; 98072-61-8	Non-SCC intermediate	> 1000	2010	Nov 2010	Apr 2014	Aurubis	1	ENV Ac 1, ENV Ch 1
									2	(low Ni, As, Pb) ENV Ac 1, ENV Ch 1, Acute tox oral 4, Skin sens 1
									3	(med Ni, As, Pb) 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 <sub>2</sub> or Pb comp)
									4	(high Ni, As, Pb) 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)
4.1	Slimes, Ag electrolysis	309-641-3; 100656-52-8	Non-SCC intermediate	> 1000	N/A	Scheduled 2021		Aurubis		
4.2	Slimes, Au electrolysis	-	SCC intermediate	1-10	N/A	Scheduled 2021		Aurubis		
4.3	Residues from PM leaching and dissolution	309-770-5; 100995-79-7	Non-SCC intermediate	> 1000	N/A	Scheduled 2021		Umicore		
4.4	Precipitates from PM refining	-	Non-SCC intermediate	100-1000	N/A	Scheduled 2021		Umicore		
5.1	Matte leaching residue	310-050-8; 102110-49-6	Non-SCC intermediate	1-10	2010	Nov 2010	Apr 2014	Umicore	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 dam. 1
									2	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
									3	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
6.1	Ag electrolyte	931-506-8; none	SCC intermediate	100-1000	N/A	Scheduled 2021		KGHM		
6.3	Nitric acid solutions from PM leaching and dissolution	-	Non-SCC intermediate	> 1000	N/A	Scheduled 2021		Aurubis		
6.2	Au electrolyte	933-944-5; none	SCC intermediate	10-100	N/A	Scheduled 2021		Aurubis	ENV Ac 1, ENV Ch 1, Skin corr 1A, Resp/Skin sens. 1, Eye dam. 1, Acute tox oral+inh 4	
6.4	Hydrochloric acid solutions from PM leaching and dissolution	-	Non-SCC intermediate	> 1000	N/A	Scheduled 2021		Aurubis		
7	Flue dust, PM refining	308-496-3; 98072-44-7	Non-SCC intermediate	100-1000	2010	Oct 2010	Apr 2014	Aurubis	1	Skin sens 1, Carc. 1A, Repro. 1A, STOT Rep 1, ENV Ac 1, ENV Ch 1
									2	(high Ag/Pb) 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
									3	(high Ni/As/Cu) 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	Non-SCC intermediate	100-1000	2010	Oct 2010	Apr 2014	Heraeus	1	Acute tox oral+inh 4, Skin sens 1, ENV Ac 1, ENV Ch 1, STOT Rep 2
									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	Non-SCC intermediate	100-1000	2010	Oct 2010	Apr 2014	Heraeus	1	(low Pb/Ni) Carc. 1A, Repro. 1A, ENV Ac 1, ENV Ch 1
									2	(med Pb/Ni) 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
									3	(high Pb/Ni) 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	Non-SCC intermediate	100-1000	2010	Nov 2010	Apr 2014	Heraeus	1	(low Ni/Pb) ENV Ch 3
									2	(med Ni/high Pb) Carc. 1A, Repro. 1A, STOT Rep 1 (driver: Pb comp), ENV Ac 1, ENV Ch 1
									3	(high Ni/Pb) 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	Non-SCC intermediate	100-1000	2010	Nov 2010	Apr 2014	Heraeus	1	No classification
									2	Carc. 2, Repro. 1A, STOT Rep 2 (driver: Ni or Pb), ENV Ac 1, ENV Ch 1, Skin sens. 1
									3	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
									4	Carc. 2, STOT Rep 2 (driver: Ni), ENV Ac 1, ENV Ch 1, Resp/Skin sens. 1

\*In light of the MISA agreement and the scheduled dossier updates in 2021, some dossiers will be split.