

Draft Platinum Group Metals indicative list (working document)

Last updated: 08 October 2007

Comments	Name of the substance	Identification numbers		Frequency	Tonnage	
		CAS	EC		10 - 100	1-10
Substances for pre-registration and registration	Platinum (massive, crystals, powders), sponge, raw and impure (depending on impurities)	7440-06-4	231-116-1	14	8	6
	Hexachloroplatinic acid (and hydrate) / Hydrogen hexachloroplatinate (IV) solution	16941-12-1	241-010-7	5	3	2
	Dipotassium hexachloroplatinate	16921-30-5	240-979-3	1	1	
	Tetraammine platinum(II) hydrogen carbonate	123439-82-7	426-730-3	3	1	2
	Tetraammineplatinum dichloride (and monohydrate)	13933-32-9	237-706-5	3		3
	Tetraammineplatinum dinitrate (in solution)	20634-12-2 / 13601-08-6	243-929-9	3		3
	Diammineplatinum(II) nitrite	14286-02-3	238-203-3	1		1
	Platinum dinitrate (int.)	18496-40-7	242-383-9	3	2	1
	Dihydrogen hexahydroxyplatinate	51850-20-5	257-471-2	2	1	1
	Dihydrogen hexahydroxyplatinate, compound with 2-aminoethanol (1:2)	68133-90-4	268-717-3	2	2	
	Dihydrogen hexachloroplatinate, compound with 1,1,3,3-tetramethyl-1,3-divinylsiloxane; "Karstedt catalyst"	52672-74-9	258-092-5	1		1
	Platinum oxide	12035-82-4	234-831-7	1		1
	Platinum dioxide (and hydrate)	1314-15-4	215-223-0	2		2
	Platinum dihydroxide (int.)	12135-23-8	235-220-8	1		1
	Platinum tetrahydroxide (int.)	12135-48-7	235-222-9	1		1
	Platinum monosulphide (int.)	12038-21-0	234-875-7	1		1
	Platinum disulphide (int.)	12038-20-9	234-875-7	1		1
	Platinum dichloride	10025-65-7	233-034-1	2	1	1
	Platinum tetrachloride (int.)	13454-96-1	236-645-1	1		1
	Platinum, 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane complexes / Karstedt concentrate	68478-92-2	270-844-4	2		2
	Dipotassium tetrachloroplatinate	10025-99-7	233-050-9	1		1
Diammonium hexachloroplatinate (int.)	16919-58-7	240-973-0	4	3	1	
Hydroxo disulfite platinum(II) acid, solution / Platinum sulfite acid solution	61420-92-6	423-310-1	1		1	
Non-waste refinable/recoverable materials						
Special preparations (non-smelted alloys)						
Link with other consortia						

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Comments	Name of the substance	Identification numbers		Frequency	Tonnage		
		CAS	EC		10 -	1-10	
Palladium	Substances for pre-registration and registration	Palladium (massive, crystals, powders), sponge, raw, impure (depending on impurities)	7440-05-3	231-115-6	14	9	5
	Palladium dichloride (int.)	7647-10-1	231-596-2	2		2	
	Dihydrogen tetrachloropalladate(2-)	16970-55-1	241-047-9	3	1	2	
	Diamminedichloropalladium	14323-43-4	238-269-3	4	1	3	
	Diammonium hexachloropalladate (int.)	19168-23-1	242-854-9	2	1	1	
	Diammonium tetrachloropalladate (int.)	13820-40-1	237-498-6	1	1		
	Dichlorobis(triphenylphosphine)palladium	13965-03-2	237-744-2	2		2	
	Bis(acetylacetonate) palladium (II)	14024-61-4	237-859-8	1		1	
	Palladium(II) acetate	3375-31-3	222-164-4	2		2	
	Palladium dinitrate	10102-05-3	233-265-8	4	2	2	
	Palladium monoxide	1314-08-5	215-218-3	1	1		
	Palladium dioxide (int.), (and hydrate) / (formic reduced palladium)	12036-04-3	234-836-4	2		2	
	Palladium dihydroxide	12135-22-7	235-219-2	1		1	
	Palladium (II) di(4-oxopent-2-en-2-oate)	14024-61-4	237-859-8	1		1	
	Disodium tetrachloropalladate (int.)	13820-53-6	237-502-6	2		2	
	Tetraamminepalladium (II) nitrate (in solution)	13601-08-6	237-078-6	2		2	
	Tetraamminepalladium(2+) diacetate	61495-96-3	262-819-1	1	1		
	Tetraammoniumpalladium (II) di (hydrogen carbonate)	134620-00-1	425-270-0	3	1	2	
	Tetraamminepalladium(2+) dichloride	13815-17-3	237-489-7	2		2	
	Tetraamminepalladium(2+) dihydroxide	68413-68-3	270-241-6	1		1	
	Tetrakis(triphenylphosphine)palladium	14221-01-3	238-086-9	2		2	
	Bis(dibenzylideneacetone)palladium(0) (?)	32005-36-0 / 52409-22-0 / 51364-51-3		1		1	
	Palladium sulphate	13566-03-5	236-957-8	2		2	
	Palladium monosulphide (int.)	12125-22-3	235-190-6	1		1	
	Non-waste refinable/recoverable materials	Palladium concentrate, slime			1		1
	Special preparations (non-smelted alloys)						
	Link with other consortia						
IRIDIUM	Substances for pre-registration and registration	Iridium (pure, sponge)	7439-88-1	231-095-9	4		4
	Iridium dioxide (and hydrate)	12030-49-8	234-743-9	1		1	
	Iridium tetrahydroxide (int.)	1312-46-5	215-196-5	1		1	
	Iridium trichloride (and hydrate)	10025-83-9	233-044-6	2		2	
	Iridium tetrachloride (int.)	10025-97-5	233-048-8	1		1	
	Hexachloroiridic acid (int.)	16941-92-7	241-012-8	2		2	
	Di- μ -chlorobis((1,2,5,6-eta)cycloocta-1,5-diene)diiridium	12112-67-3	235-170-7	1		1	
	Diammonium hexachloroiridate (int.)	16940-92-4	241-007-0	3		3	
	Iridium acetate; 1,2,3-triaqua-1,2,1,2,1,3,1,3,2,3,2,3-hexa- μ -acetato-(O,O')- μ 3-oxo-triangulo-triiridium acetate	52705-52-9 / 37598-27-9	417-670-9	3		3	
	Trisodium hexachloroiridate (int.)	15702-05-3	239-795-6	1		1	
	Tripotassium hexachloroiridate (int.)	14024-41-0	237-854-0	1		1	
	Non-waste refinable/recoverable materials						
	Special preparations (non-smelted alloys)						
	Link with other consortia						

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			CAS	EC		10 -	1-10
OSMIUM	Substances for pre-registration and registration	Osmium	7440-04-2	231-114-0	1		1
		Osmium trichloride (int.)	13444-93-4	236-587-7	1		1
	Non-waste refinable/recoverable materials						
	Special preparations (non-smelted alloys)						
	Link with other consortia						
RHODIUM	Substances for pre-registration and registration	Rhodium (pure, sponge)	7440-16-6	231-125-0	6		6
		Acetylacetonatecarbonyl rhodium (I)	14874-82-9	238-947-9	2		2
		Carbonyl(pentane-2,4-dionato-O,O')(triphenylphosphine)rhodium	25470-96-6	247-015-0	2		2
		Carbonylhydrotris(triphenylphosphine)rhodium	17185-29-4	241-230-3	1		1
		Dicarbonyl(pentane-2,4-dionato-O,O')rhodium	14874-82-9	238-947-9	1		1
		Rhodium acetate	42204-14-8	255-707-9	2		2
		Rhodium trichloride (and hydrate) / Rhodium (III) chloride hydrate	10049-07-7 / 20765-98-4 / 13569-65-8	233-165-4	3		3
		Di-mu-chloro-bis(hapto-1,5-cyclooctadiene)dirhodium(I)	12092-47-6	235-157-6	1		1
		Tris(triphenylphosphine) rhodium (I) chloride	14694-95-2	238-744-5	2		2
		Trisodium hexachlororhodate (int.)	14972-70-4	239-047-9	1	1	
		Diammonium pentachlororhodate (int.)	65980-78-1	265-990-0	1	1	
		Triammonium hexachlororhodate (int.)	15336-18-2	239-364-2	3	2	1
		Rhodium dioxide (int.)	12137-27-6	235-237-0	1		1
		Dirhodium trioxide (and other unreduced Rh)	12036-35-0 / 39373-27-8	234-846-9	2		2
		Rhodium trihydroxide (int.)	21656-02-0	244-508-2	2		2
		Rhodium triiodide	15492-38-3	239-521-5	1		1
		Rhodium nitrate species (nos); Rhodium trinitrate (and hydrate) (int.)	10139-58-9 / 15492-38-3 / 13465-43-5	233-397-6	4		4
		Ammonium sodium rhodium nitrite (int.)	Not available	Not available	1	1	
		Dirhodium sulphide (int.)	120-06-0	235-075-0	1		1
		Dirhodium trisulphate	10489-46-0	234-014-5	1		1
Dirhodium trisulphite	80048-77-7	279-381-2	1		1		
Rhodium phosphate	67859-71-6	267-420-6	1		1		
Non-waste refinable/recoverable materials							
Special preparations (non-smelted alloys)							
Link with other consortia							

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	Comments	Name of the substance	Identification numbers		Frequency	Tonnage	
			CAS	EC		10 -	110
RUTHENIUM	Substances for pre-registration and registration	Ruthenium (pure, sponge)	7440-18-8	231-127-1	6	1	5
		Ruthenium trichloride (and hydrate)	10049-08-8	233-167-5	3	1	2
		Ruthenium tetrachloride	13465-52-6	236-697-5	1		1
		Ammonium Ruthenium Chloride	Not available	Not available	1		1
		Tris(nitrate-O)nitrosylruthenium	34513-98-9	252-068-8	2		2
		Dichlorotris(triphenylphosphine)ruthenium	15529-49-4	239-569-7	1		1
		Hexakis[μ-(acetato-O,O')-μ3-oxo-triangulo-triruthenium acetate / Ruthenium acetate	55466-76-7	259-653-7	3		3
		Diammonium hexachlororuthenate	18746-63-9	242-552-7	1		1
		Potassium tetraoxoruthenate	31111-21-4	250-473-4	1	1	
		Dipotassium hexachlororuthenate (int.)	23013-82-3	245-381-6	1	1	
		Dichloro(p-cymene)ruthenium(II) dimer	52462-29-0	Not available	1		1
		Ruthenium (IV) oxide and other unreduced Ru (and hydrate) (int.)	12036-10-1	234-840-6	2		2
		Ruthenium disulphide (int.)	12166-20-0	235-318-0	1		1
	Non-waste refinable/recoverable materials				0		
	Special preparations (non-smelted alloys)				0		
	Link with other consortia				0		
Multiple PGM's	Non-waste refinable/recoverable materials	Pt-Pd concentrate			1		1
		Pb/PGM alloy			1		1
		Leach insolubles			1		1
	Special preparations (non-smelted alloys)				0		
	Link with other consortia				0		