

Effluent Guidelines/Categorical Regulations Summary

Last Update April 6, 2001

Industrial Category	40 CFR Reference	SIC Codes (Partial List)	Subparts	Promulgation Date	New Source Date	Regulated Parameters for Pretreatment
Category Description						
Aluminum Forming Processes by which aluminum or aluminum alloys are changed in size and shape. Processes include rolling, extrusion, forging and drawing.	467	3353 3354 3355 3357 3463	A. Rolling with Neat Oils B. Rolling with Emulsions C. Extrusion D. Forging E. Drawing with Neat Oils F. Drawing with Emulsions or Soaps	10/24/83	11/22/82	Cr, CN, Zn, TTO
Asbestos Manufacturing	427	2621 3292	No pretreatment standards	2/11/75	N/A	None
Battery Manufacturing Processes by which a wide variety of consumer and industrial batteries are produced	461	3691 3692	A - Cadmium B - Calcium C - Lead D - Leclanche E - Lithium F - Magnesium G - Zinc	3/9/84	11/10/82	Cd, Ni, Zn, Co, Cu, Pb, Mn, Hg, Cr, Ag, CN
Builders Paper & Board Mill Manufacturer of builders paper and roofing felt from wastepaper	431	2621		11/18/82		PCP, TCP
Canned & Preserved Fruits & Vegetables	407	Various	No pretreatment standards	2/11/75		None

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Canned & Preserved Seafood Processing	408	Various	No pretreatment standards	2/11/75		None
Carbon Black Manufacture Manufacture of Carbon Black by various processes	458	2895	A - Furnace Process B - Thermal Process C - Channel Process D - Lamp Process	1/9/78		Oil and Grease
Cement Manufacture	411	Various	No pretreatment standards	2/20/74		None
Centralized Waste Treatment	437		A - Metals B - Oils C - Organics D - Multiple Wastestream	12/22/00	1/27/95	
Coal Mining	434	1221 1222	No pretreatment standards	10/9/85	4/11/99	None
Coil Coating Processes by which long thin strips of metal (coils) are cleaned and painted with an organic paint, includes canmaking	465	3411 3412 3479 3497	A - Steel Basis Material B - Galvanized Basis Material C - Aluminum Basis Material D - Canmaking	12/01/82 11/17/83	1/12/81 2/10/83	Cr, Cn, ZN, TTO, Oil and Grease, Mn, F, Phosphorus, Cu
Commercial Hazardous Waste Combustors	444			1/27/00 corr. 5/23/00	2/6/98	Ar, Cd, Cr, Cu, Pb, Hg, Ag, Ti, Zn
Copper Forming Processes by which copper is changed in size or shape includes rolling, drawing, extrusion	468	3351 3357 3463	A - Copper Forming B - Beryllium Copper Forming	8/15/83	11/12/82	Cr, Cu, Pb, Ni, Zn, TTO, Oil and Grease

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Dairy Products	405	Various	No pretreatment standards	5/28/74		None
Electrical & Electronic Components Manufacture of a broad array of electrical and electronic products	469	3339 3677 3612 3679 3624 3993 3641 3671-4	A - Semiconductor B - Electronic Crystals C - Cathode Ray Tube D - Luminescent	12/14/83	3/9/83	As, Cd, Cr, F, P, Mn, TTO, Oil and Grease
Electroplating Processes include electroplating, electroless plating, anodizing, coatings, chemical etching and milling, and printed circuit board manufacture. PCB manufacturing is creating the board pattern, not board assembly.	413	3398 3399 any 34XX - any 39XX	A - Electroplating of Common Metals B - Electroplating of Precious Metals D - Anodizing E - Coatings F - Chemical Etching and Milling G - Electroless Plating H - Printed Circuit Board Manu.	1/28/81; amendment for TTO 7/15/83	7/3/80	Cd, Cr, Cu, Pb, Ni, Ag, CN, Zn, TTO
Explosives Manufacture	457	2892	No Pretreatment Standards	3/9/76		None
Feedlots	412	0211 0213 0214 0259	No Pretreatment Standards	2/14/74		None
FerroAlloy Manufacture	424	Various	No Pretreatment Standards			None
Fertilizer Manufacturing Manufacture of chemical fertilizer	418	2873 2874 2875	A - Phosphate B - Ammonia C - Urea D - Ammonium Nitrate E - Nitric Acid F - Ammonium Sulfate G - Mixed & Blend	4/8/74	12/7/73 10/7/74	Ammonia, Nitrates, Phosphorus

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Glass Manufacture Processes in which raw materials are used to make various glass products including fiberglass insulation, also includes the treatment of glass for use in automobiles	426	3211 3296 3221 3229	A - Insulation Fiberglass B - Sheet Glass C - Rolled Glass D - Plate Glass E - Float Glass G - Automotive Glass H - Glass Container K - Television Picture Tube L - Incandescent Lamp M - Hand Press and Blown	1/22/74	10/17/73	Phosphorus, Oil (mineral), Fluoride
Grain Mills Point Source	406	Various	No pretreatment standards	3/20/74		None
Gum & Wood Chemicals	454	Various	No pretreatment standards	5/18/76		None
Hospitals	460	8071 8062 8069 8063	No pretreatment standards	5/6/76		None
Industrial Laundries	441		Proposal withdrawn - no final regs	withdrawn 6/99	12/17/97	
Ink Formulating	447	2899 2893	No pretreatment standards	7/28/75		NO DISCHARGE
Inorganic Chemical Manufacture Encompasses the manufacture of all chemicals not containing any carbon	415	2812 2813 2816 2819	66 Individual Subcategories	6/29/82	Varies	Hg, Pb, F, Ni, An, Cr, COD, Fe, TSS, Cu, Se, CN, Cd, Co, Sb, As

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Iron & Steel Manufacturing Includes all processes used in the manufacture of iron and steel including forming and casting	420	3312 3313 3315 3316 3317 3462 3479 3493	A - Cokemaking B - Sintering C - Ironmaking D - Steelmaking E - Vacuum Degassing F - Continuous Casting G - Hot Forming H - Salt Bath Descaling I - Acid Pickling J - Cold Forming K - Alkaline Cleaning L - Hot Coating	5/27/82	1/7/81 proposed changes - 12/27/00 corrections - 2/14/01	Cr, CN, Ni, Pb, Zn, Ammonia, naphthalene, Tetrachloroethylene
Landfills	445		No pretreatment standards	1/19/00 corr - 3/16/00	2/6/98	
Leather Tanning & Finishing Includes processes used to convert animal hides and skins into leather. Does not include facilities that use purchased leather.	425	3353 3354 3355 3357 3463	A - Hair Pulp, Chrome Tan Retan - Wet Finish B - Hair Shave, Chrome Tan, Retan - Wet Finish C - Hair Shave or Pulp Non-Chrome Tan, Retan wet D - Retan - Wet Finish - Sides E - No Beamhouse F - Thru the Blue G - Shearling H - Pigskin I - Retan Wet Finish Splits	11/23/82 4/4/88 7/8/96	7/2/79 all except subpart C 1/21/87	Cr, Sulfides
Meat Products	432	Various	No pretreatment standards	2/28/74		None

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Metal Finishing Includes the six core metal finishing operations: Electroplating, electroless plating, anodizing, coating, chemical etching & milling and PCBM. Also includes shop that conduct one of those processes as non-discharge but do conduct various other metal processes. Note: pre-existing job shops are covered under electroplating regulation 413	433	3353 3354 3355 3357 3463	A - Metal Finishing	7/15/83	8/31/82	Cd, Cr, Cu, Pb, Ni, Ag, CN, Zn, TTO
Metal Molding & Casting The raw materials for this industry are aluminum, copper, iron, lead magnesium, or zinc. These metals are melted and poured or forced into a mold.	464	3321 3322 3324 3325 3361 3362 3369	A - Aluminum Casting B - Copper Casting C - Ferrous Casting D - Zinc	10/30/85	11/15/82	Cr, Pb, Zn, TTO, Oil & Grease, phenols

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Metal Products and Machinery	438	various	A - General Metals B - Metal Finishing Job Shops C - Non-chromium Anodizing D - Printed Wiring Boards E - Steel Forming and Finishing F - Oily Wastes G - Railroad Line Maintenance H - Shipbuilding Dry Docks		1/3/01	
Mineral Mining and Processing	436	Various	No pretreatment standards	10/16/75		None
NonFerrous Metals Forming and Metal Powders This category includes the forming and production of all metals and alloys that are not primarily iron. Also includes production of metal powders from such processes as milling.	471	3356 3357 3463 3497	A - Lead Tin-Bismuth Forming B - Magnesium Forming C - Nickel-Cobalt Forming D - Precious Metals Forming E - Refractory Metals Forming F - Titanium Forming G - Uranium Forming H - Zinc Forming I - Zirconium-Hafnium J- Metal Powders	8/23/85	3/5/84	Sb, Pb, Cr, Zn, F, Ni, Cd, Cu, CN, Ag, Mo, Ammonia
NonFerrous Metal Manufacturing Category includes industries that produce metals from ore concentrates or recover metals from recycled wastes	421	3331 3332 3333 3334 3339 3341	31 Individual Subcategories A-AE	Subpart A-M 3/8/84 Subparts N - AI 9/20/85 Subpart J 1/21/88	Subpart A-M 2/17/83 Subparts N-AE 6/27/84 Subpart J 1/22/87	Ni, F, Pb, Zn, As, Cu, Cd, Sb, Hg, Be, Cr, CN, Indium, Se, Mo, Fe, Co, Ag, Au, Ta, Sn, Ti, W, Benzo(a)pyrene, Phenolics, hexachlorobenzene

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Organic Chemicals, Plastics & Synthetic Fibers Includes industries that produce an exceptionally broad range of industrial organic chemicals (chemicals with at least one carbon atom) plastics and synthetic fibers	414	2821 2823 2824 2865 2869 2843 2845	A - General B - Rayon Fibers C - Other Fibers D - Thermoplastic Fibers E - Thermosetting Resin F - Commodity Organic Chemicals G - Bulk Organic H - Speciality Organic Chemicals	11/5/87	3/21/83	Multiple organics, CN, Pb, Zn, TSS, and BOD
Oil and Gas Extraction	435	Various	No pretreatment standards	4/13/79 1/22/01 Synthetic Fluids	12/98 Synthetic Fluids	None
Ore Mining & Dressing	440	Various	No pretreatment standards	12/3/82		None
Paint Formulating	446	Various	A - Oil-Base Solvent Wash	7/28/75		NO DISCHARGE
Paving & Roofing Materials Category includes industries that produce tars and asphalt	443	2851 2951	A - Asphalt Emulsion B - Asphalt Concrete C - Asphalt Roofing D - Linoleum & Printed Felt	7/24/75		Oil and Grease
Pesticide Manufacture Category includes industries that produce, formulate, or package chemicals whose purpose is to control undesirable plants and animals	455	2879	A - Organic Pesticide Chemicals B - Metallo-Organic Pesticide C - Pesticide Chemical Formulating and Packaging E - Agricultural Refilling Establishments	12/15/86 Update to be promulgated 8/30/93 11/6/96 amend - 7/22/98		Subpart A COD, BOD, TSS, Organic pesticide residue Subpart B&C NO DISCHARGE/P2

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Petroleum Refining	419	2911 2951 2992 2999	A - Topping B - Cracking C - Petrochemical D - Lube E - Intergrated	10/18/82	12/21/79	Oil & Grease, Ammonia, Cr
Pharmaceutical Manufacture Category includes the manufacture of chemicals or feed of medicinal value includes processes of chemical synthesis, fermentation or natural sources	439	2831 2833 2834 2844	A - Fermentation Products B - Extraction Products C - Chemical Synthesis D - Mixing/Compounding and Formulation	10/27/83 7/30/98 amend - 9/2/99 3/16/99 3/4/99	11/26/82 5/2/95	Oil & Grease, Ammonia, Cr
Phosphate Manufacture	422	2819 2874	No pretreatment standards	2/20/74		None
Photographic	459	7384	No pretreatment standards	7/14/76		None
Plastics Molding & Forming	463	7384	No pretreatment standards	12/17/84		None
Porcelain Enameling Category processes by which ceramic or fused silicate is applied to a basis metal includes the operations or preparing the metal	466	3431 3469 3631 3632 3633 3639	A - Steel Basis Material B - Cast Iron Basis Material C - Aluminum Basis Material D - Copper Basis Material	11/24/82	2/27/81	Cr, Pb, Ni, Zn

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Pulp, Paper and Paperboard	430	2621 2611 2631 2641 2661 2646	25 Individual subparts	11/18/82 4/15/98 corr- 8/7/98 7/7/98	1/6/81 12/17/93 Phases 2-3	PCP, trichlorophenol
Rubber Manufacturing Category includes processes by which rubber from natural or synthetic sources is made and/or formed into products such as tires	428	3061 3069 2822 3011	D - Latex Rubber E - Small Sized General Molded, Extruded and Fabricated Rubber Plants F - Medium Sized G - Large Sized H - Wet Digestion Reclaim I - Pan, Dry Digestion and Mechanical Reclaim J - Latex-Dipped, Extruded and Molded K - Latex Foam	2/21/74		Cr, Pb, Zn, Oil & Grease, COD
Soap & Detergent Manufacture	417	Various	No Pretreatment Standards	4/12/74		None
Steam Electric Power Generating Includes facilities that produce steam to generate electricity for distribution and sale	423	4911		11/19/82	10/14/80	Cu, Cr, Zn, and calculation of 126 Organics (priority pollutants)
Sugar Processing	409	2061 2062 2065	No Pretreatment Standards	1/31/74		None

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Textiles	410	Various	No Pretreatment Standards	9/2/82		None
Timber Products Includes facilities which produce lumber, wood and boards: sawmills, plywood plants and wood processing plants	429	2435 2436 2439 2491 2492 2499 2661	F - Wood Preservng/Waterborne Nonpressure G - Wood Preserving Steam H - Wood Preserving Boulton	1/26/81	10/31/79	Subparts G&H As, Cu, Cr and Oil & Grease Subpart F NO DISCHARGE
Transportation Equipment Cleaning	442		A - Tank Trucks - Chemical/Petro B - Rail Tank Cars - Chem/Petro C - Tank Barges - Chemical/Petro D - Tank - Food	8/14/00	5/15/98	