

TABLE 28-1 AIRBORNE CONTAMINANTS RELEASED BY STRIPPING OPERATIONS

Coatings to Be Stripped	Base Metal (See Footnote)	Components of Bath Which May Be Released to Atmosphere	Physical and Chemical Nature of Major Atmospheric Contaminant	Rate of Gassing	Usual Temp Range (°F)
Anodized Coatings	1, 7	Chromic Acid	Acid Mist, Steam	Medium	125-150
Black Oxide Coatings	14	Hydrochloric Acid	Hydrogen Chloride Gas	Low-Medium	70-125
Brass and Bronze	8, 14 (a)	Sodium Hydroxide, Sodium Cyanide	Alkaline Cyanide Mists	Low-Medium	70-90
Leadings	2, 14 (a)	Sodium Hydroxide, Sodium Cyanide	Alkaline Cyanide Mists	Low-Medium	70-90
Leadings	2, 4, 14 (a)	Hydrochloric Acid	Acid Mist, Hydrogen Chloride Gas	Low-Medium	70-90
Chromium	7, 8, 14 (a)	Sodium Hydroxide	Alkaline Mist, Steam	Low	70-100
	2, 4, 8, 14 (a)	Hydrochloric Acid	Hydrogen Chloride Gas	Medium	70-125
	2, 4, 8, 14 (a)	Sulfuric Acid	Acid Mist	Medium	70-90
Copper	8, 14 (b)	Sodium Hydroxide, Sodium Cyanide	Alkaline Cyanide Mists	Low-Medium	70-90
	14 (a)	(None)	Cyanide Mists	Nil	70-90
	14 (a)	Alkaline Cyanide	Cyanide Mists	Low-Medium	70-100
	14 (a)	Nitric Acid	Nitrogen Oxide Gases	High	70-100
	14 (a)	Sodium Hydroxide-Sodium Sulfide	Alkaline Mist, Steam	Medium	70-100
Gold	4, 8, 9, 14 (a)	Sodium Hydroxide, Sodium Cyanide	Alkaline Cyanide Mists	Low-Medium	70-90
	4, 7, 14 (a)	Sulfuric Acid	Acid Mist	Low-Medium	70-100
Lead	14 (c)	Acetic Acid, Hydrogen Peroxide	Oxygen Mist	Low	70-90
	14 (c)	Sodium Hydroxide	Alkaline Mist, Steam	Low-Medium	70-100
Nickel	2, 4 (a)	Sulfuric, Nitric Acids	Nitrogen Oxide Gases	Medium-High	70-90
	2, 4, 14 (a)	Hydrochloric Acid	Hydrogen Chloride Gas	Low	70-90
	14 (a)	Sulfuric Acid	Acid Mist	Low	70-90
	14 (a)	Hydrofluoric Acid	Hydrogen Fluoride Gas	Low-Medium	70-90
	14 (a)	Pumping Nitric Acid	Nitrogen Oxide Gases	High	70-90
	14 (a)	Hot Water	Steam	Medium	200
	14 (a)	Sulfuric Acid	Acid Mist, Steam	Low-Medium	70-100
Phosphate Coatings	14	Chromic Acid	Acid Mist, Steam	Low	70-90
	14	Ammonium Hydroxide	Ammonia Gas	Low-Medium	70-90
Rhodium	14	Sulfuric, Hydrochloric Acids	Acid Mist, Hydrogen Chloride Gas	Low-Medium	70-100
Silver	2, 11 (a)	Nitric Acid	Nitrogen Oxide Gases	High	70-90
	2, 14 (a)	Sulfuric, Nitric Acids	Nitrogen Oxide Gases, Steam	High	100
	14 (a)	Sodium Hydroxide, Sodium Cyanide	Alkaline Cyanide Mists	Low	70-90
	14 (a)	Sodium Cyanide	Cyanide Mist	Low	70-90
Tin	2, 2, 4 (a)	Ferric Chloride, Copper Sulfate	Acid Mist	Nil-Low	70-90
	2, 4, 14 (a)	Acetic Acid	Alkaline Mist	Low	70-90
	14 (a)	Sodium Hydroxide	Hydrogen Chloride Gas	Low-Medium	70-90
	14 (a)	Hydrochloric Acid	Alkaline Mist, Steam	Medium	70-100
	14 (a)	Sodium Hydroxide	Alkaline Mist, Steam	Medium	70-100
Zinc	1	Nitric Acid	Nitrogen Oxide Gases	High	70-90
	2, 14	Sodium Hydroxide, Sodium Cyanide	Alkaline Cyanide Mists	Low	70-90

FOOTNOTES: 1 Aluminum
2 Brass
3 Bronze
4 Copper
5 Copper alloys
6 Ferrous metals
7 Magnesium
8 Nickel

9 Nickel alloys
10 Nickel plated brass
11 Nickel silver
12 Non ferrous metals
13 Silver
14 Steel
15 Steel (manganese type coatings)
16 Steel (zinc type coatings)

17 White metal
18 Zinc
19 Zinc base die castings
(a) Electrolytic process
(b) Refers only to steel (14) when chromic-sulfuric
as its bath is used
(c) Also lead alloys
(d) Sodium nitrate bath

Courtesy New York State Department of Labor, Division of Industrial Hygiene

EXHAUST SYSTEMS, GENERAL & COMFORT VENTILATION