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Toxic substances list: schedule 1

Updated Schedule 1 as of May 12, 2021

- 1. Chlorobiphenyls that have the molecular formula $C_{12}H_{(10-n)}Cl_n$ in which "n" is greater than 2
- 2. <u>Dodecachloropentacyclo [5.3.0.0^{2,6}.0^{3,9}.0^{4,8}] decane (Mirex)</u>
- 3. <u>Polybrominated biphenyls that have the molecular formula $C_{12}H_{(10-n)}Br_n$ in which "n" is greater than 2</u>
- 4. <u>Chlorofluorocarbon: totally halogenated chlorofluorocarbons that</u> have the molecular formula $C_nCl_xF_{(2n+2-x)}$
- 5. <u>Polychlorinated terphenyls that have a molecular formula $C_{18}H_{(14-n)}Cl_n$ in which "n" is greater than 2</u>
- 6. Asbestos
- 7. <u>Lead</u>
- 8. Mercury and its compounds
- 9. Vinyl chloride
- 10. <u>Bromochlorodifluoromethane that has the molecular formula</u> <u>CF₂BrCl</u>
- 11. Bromotrifluoromethane that has the molecular formula CF₃Br
- 12. Dibromotetrafluoroethane that has the molecular formula C₂F₄Br₂
- 13. <u>Fuel containing toxic substances that are dangerous goods within</u> the meaning of section 2 of the Transportation of Dangerous Goods

Act, 1992 and that

- (a) are neither normal components of the fuel nor additives designed to improve the characteristics or the performance of the fuel or
- **(b)** are normal components of the fuel or additives designed to improve the characteristics or performance of the fuels, but are present in quantities or concentrations greater than those generally accepted by industry standards
- 14. Dibenzo-para-dioxin that has the molecular formula of C₁₂H₈O₂
- 15. <u>Dibenzofuran that has the molecular formula C₁₂H₈O</u>
- 16. <u>Polychlorinated dibenzo-para-dioxins that have the molecular</u> formula $C_{12}H_{(8-n)}O_2Cl_n$ in which "n" is greater than 2
- 17. Polychlorinated dibenzofurans that have the molecular formula $C_{12}H_{(8-n)}OCl_n$ in which "n" is greater than 2
- 18. <u>Tetrachloromethane (carbon tetrachloride) CCl₄</u>
- 19. 1,1,1-trichloroethane (methyl chloroform) CCl₃-CH₃
- 20. Bromofluorocarbons other than those set out in items 10 to 12
- 21. <u>Hydrobromofluorocarbons that have the molecular formula</u> $C_nH_xF_yBr_{(2n+2-x-y)}$ in which $0 < n \le 3$
- 22. Methyl bromide
- 23. Bis(chloromethyl) ether that has the molecular formula $C_2H_4Cl_2O$
- 24. Chloromethyl methyl ether that has the molecular formula C₂H₅ClO
- 25. <u>Hydrochlorofluorocarbons that have the molecular formula</u> $\underline{C_nH_xF_yCl_{(2n+2-x-y)} \text{ in which } 0 < n < 3}$
- 26. <u>Benzene that has the molecular formula C₆H₆</u>
- 27. <u>(4-Chlorophenyl)cyclopropylmethanone, O-[(4-nitrophenyl)methyl]oxime that has the molecular formula C₁₇H₁₅ClN₂O₃</u>
- 28. <u>Inorganic arsenic compounds</u>
- 29. <u>Benzidine and benzidine dihydrochloride, that have the molecular formula $C_{12}H_{12}N_2$ and $C_{12}H_{12}N_2 \cdot 2HCl$, respectively</u>

- 30. Bis(2-ethylhexyl)phthalate
- 31. Inorganic cadmium compounds
- 32. Chlorinated wastewater effluents
- 33. Hexavalent chromium compounds
- 34. <u>Creosote-impregnated waste materials from creosote-contaminated</u> <u>sites</u>
- 35. 3,3'-Dichlorobenzidine
- 36. <u>1,2-Dichloroethane</u>
- 37. Dichloromethane
- 38. Effluents from pulp mills using bleaching
- 39. Hexachlorobenzene
- 40. Inorganic fluorides
- 41. Refractory ceramic fibre
- 42. Oxidic, sulphidic and soluble inorganic nickel compounds
- 43. Polycyclic aromatic hydrocarbons
- 44. Tetrachloroethylene
- 45. Trichloroethylene
- 46. <u>Tributyltetradecylphosphonium chloride that has the molecular</u> formula C₂₆H₅₆P·Cl
- 47. Bromochloromethane, that has the molecular formula CH₂BrCl
- 48. Acetaldehyde, which has the molecular formula C_2H_4O
- 49. 1,3-Butadiene, which has the molecular formula C₄H₆
- 50. Acrylonitrile, which has the molecular formula C₃H₃N
- 51. Respirable particulate matter less than or equal to 10 microns
- 52. Acrolein, which has the molecular formula C_3H_4O
- 53. Ammonia dissolved in water
- 54. Nonylphenol and its ethoxylates
- 55. Effluents from textile mills that use wet processing
- 56. <u>Inorganic chloramines</u>, which have the molecular formula $NH_nCl_{(3-n)}$, where n = 0, 1 or 2
- 57. Ethylene oxide, which has the molecular formula H₂COCH₂

- 58. Formaldehyde, which has the molecular formula CH₂O
- 59. N-Nitrosodimethylamine, which has the molecular formula C₂H₆N₂O
- 60. Gaseous ammonia, which has the molecular formula NH₃(g)
- 61. Ozone, which has the molecular formula O₃
- 62. Nitric oxide, which has the molecular formula NO
- 63. Nitrogen dioxide, which has the molecular formula NO₂
- 64. Sulphur dioxide, which has the molecular formula SO₂
- 65. <u>Volatile organic compounds that participate in atmospheric photochemical reactions, excluding the following:</u>
 - (a) methane
 - (b) ethane
 - (c) methylene chloride (dichloromethane)
 - (d) 1,1,1-trichloroethane (methyl chloroform)
 - (e) 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113)
 - **(f)** trichlorofluoromethane (CFC-11)
 - (g) dichlorodifluoromethane (CFC-12)
 - (h) chlorodifluoromethane (HCFC-22)
 - (i) trifluoromethane (HFC-23)
 - (j) 1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114)
 - (k) chloropentafluoroethane (CFC-115)
 - (I) 1,1,1-trifluoro-2,2-dichloroethane (HCFC-123)
 - (m) 1,1,1,2-tetrafluoroethane (HFC-134a)
 - (n) 1,1-dichloro-1-fluoroethane (HCFC-141b)
 - (o) 1-chloro-1,1-difluoroethane (HCFC-142b)
 - (p) 2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124)
 - (q) pentafluoroethane (HFC-125)
 - (r) 1,1,2,2-tetrafluoroethane (HFC-134)
 - (s) 1,1,1-trifluoroethane (HFC-143a)
 - (t) 1,1-difluoroethane (HFC-152a)
 - (u) parachlorobenzotrifluoride (PCBTF)
 - (v) cyclic, branched or linear completely methylated siloxanes

- (w) acetone
- (x) perchloroethylene (tetrachloroethylene)
- (y) 3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)
- (z) 1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)
- (**z.1**) 1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC 43-10mee)
- (z.2) difluoromethane (HFC-32)
- (z.3) ethylfluoride (HFC-161)
- (**z.4**) 1,1,1,3,3,3-hexafluoropropane (HFC-236fa)
- (z.5) 1,1,2,2,3-pentafluoropropane (HFC-245ca)
- **(z.6)** 1,1,2,3,3-pentafluoropropane (HFC-245ea)
- **(z.7)** 1,1,1,2,3-pentafluoropropane (HFC-245eb)
- (z.8) 1,1,1,3,3-pentafluoropropane (HFC-245fa)
- (**z.9**) 1,1,1,2,3,3-hexafluoropropane (HFC-236ea)
- **(z.10)** 1,1,1,3,3-pentafluorobutane (HFC-365mfc)
- (z.11) chlorofluoromethane (HCFC-31)
- (z.12) 1-chloro-1-fluoroethane (HCFC-151a)
- (z.13) 1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a)
- (z.14) 1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-butane ($C_4F_9OCH_3$)
- (z.15) 2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane $((CF_3)_2CFCF_2OCH_3)$
- (z.16) 1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane ($C_4F_9OC_2H_5$)
- (z.17) 2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane $((CF_3)_2CFCF_2OC_2H_5)$
- **(z.18)** methyl acetate and perfluorocarbon compounds that fall into the following classes, namely
 - i. cyclic, branched or linear completely fluorinated alkanes
 - ii. cyclic, branched, or linear completely fluorinated ethers with no unsaturations
 - iii. cyclic, branched or linear completely fluorinated tertiary amines with no unsaturations, or

- iv. sulfur containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine
- (z.19) 1,1,1,2,2,3,3-heptafluoro-3-methoxy-propane (HFE-7000)
- (**z.20**) 3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl) hexane (HFE-7500)
- (z.21) 1,1,1,2,3,3,3-heptafluoropropane (HFC-227ea)
- (z.22) methyl formate (HCOOCH₃)
- (z.23) t-butyl acetate
- (**z.24**) 1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-trifluoromethylpentane (HFE-7300)
- (z.25) propylene carbonate
- (z.26) dimethyl carbonate
- (z.27) trans-1,3,3,3-tetrafluoropropene (HFO-1234ze)
- (**z.28**) HCF₂OCF₂H (HFE-134)
- (z.29) HCF₂OCF₂OCF₂H (HFE-236cal2)
- (z.30) $HCF_2OCF_2CF_2OCF_2H$ (HFE-338pcc13)
- (z.31) HCF₂OCF₂OCF₂CF₂OCF₂H
- **(z.32)** 2,3,3,3-tetrafluoropropene (HFO-1234yf)
- (z.33) trans 1-chloro-3,3,3-trifluoroprop-1-ene [HCFO-1233zd(E)]; and
- (z.34) 2-amino-2-methyl-1-propanol
- 66. Hexachlorobutadiene, which has the molecular formula C₄Cl₆
- 67. <u>Particulate matter containing metals that is released in emissions</u> <u>from copper smelters or refineries, or from both</u>
- 68. <u>Particulate matter containing metals that is released in emissions</u> <u>from zinc plants</u>
- 69. <u>Dichlorodiphenyltrichloroethane (DDT)</u>, which has the molecular formula $C_{14}H_9Cl_5$
- 70. 2-butoxyethanol, which has the molecular formula $C_6H_{14}O_2$
- 71. 2-methoxyethanol, which has the molecular formula C₃H₈O₂
- 72. Tetrachlorobenzenes, which have the molecular formula C₆H₂Cl₄

- 73. Pentachlorobenzene, which has the molecular formula C₆HCl₅
- 74. Carbon dioxide, which has the molecular formula CO₂
- 75. Methane, which has the molecular formula CH₄
- 76. Nitrous oxide, which has the molecular formula N₂O
- 77. <u>Hydrofluorocarbons that have the molecular formula $C_nH_xF_{(2n+2-x)}$ in which 0 < n < 6</u>
- 78. The following perfluorocarbons:
 - (a) those that have the molecular formula C_nF_{2n+2} in which 0 < n < 7
 - (b) octafluorocyclobutane, which has the molecular formula C₄F₈
- 79. Sulphur hexafluoride, which has the molecular formula SF₆
- 80. Methanone, bis[4-(dimethylamino)phenyl]-, which has the molecular formula $C_{17}H_{20}N_2O$
- 81. 2-Butanone, oxime, which has the molecular formula C₄H₉NO
- 82. n-Butyl glycidyl ether, which has the molecular formula $C_7H_{14}O_2$
- 83. Polybrominated diphenyl ethers that have the molecular formula $\underline{C_{12}H_{(10-n)}Br_nO \text{ in which } 4 \leq n \leq 10}$
- 84. Perfluorooctane sulfonate and its salts
- 85. Compounds that contain one of the following groups: $C_8E_{17}SO_2$, $C_8E_{17}SO_3$ or $C_8E_{17}SO_2N$
- 86. Methyloxirane, which has the molecular formula C₃H₆O
- 87. Ethyloxirane, which has the molecular formula C₄H₈O
- 88. Naphthalene, which has the molecular formula C₁₀H₈
- 89. Toluene diisocyanates, which have the molecular formula C₉H₆N₂O₂
- 90. 1,2-Benzenediol, which has the molecular formula C₆H₆O₂
- 91. 1,4-Benzenediol, which has the molecular formula $C_6H_6O_2$
- 92. <u>Hexane, 1,6-diisocyanato-, homopolymer, reaction products with alpha-fluoro-omega-2-hydroxyethyl-poly(difluoro- methylene), C16-20-branched alcohols and 1-octadecanol</u>
- 93. <u>2-propenoic acid, 2-methyl-, hexadecyl ester, polymers with 2-hydroxyethyl methacrylate, gamma-omega-perfluoro-C10-16-alkyl acrylate and stearyl methacrylate</u>

- 94. <u>2-propenoic acid, 2-methyl-, 2-methylpropyl ester, polymer with</u>
 <u>butyl 2-propenoate and 2,5-furandione, gamma-omega-perfluoro-</u>
 <u>C8-14-alkyl esters, tert-Bu benzenecarboperoxoate-initiated</u>
- 95. <u>2-propen-1-ol reaction products with pentafluoroiodoethane</u>
 <u>tetrafluoroethylene telomer, dehydroiodinated, reaction products</u>
 <u>with epichlorohydrin and triethylenetetramine</u>
- 96. Phenol, 4,4' -(1-methylethylidene)bis-, which has the molecular formula $C_{15}H_{16}O_2$
- 97. Thiourea, which has the molecular formula CH₄N₂S
- 98. 1,3-Butadiene, 2-methyl-, which has the molecular formula C₅H₈
- 99. Oxirane, (chloromethyl)-, which has the molecular formula C₃H₅ClO
- 100. Colour Index Pigment Yellow 34
- 101. Colour Index Pigment Red 104
- 102. <u>Cyclotetrasiloxane, octamethyl-, which has the molecular formula</u> $C_8H_{24}O_4Si_4$
- 103. Phenol, 2,4,6-tris(1,1-dimethylethyl)-, which has the molecular formula $C_{18}H_{30}O$
- 104. Ethanol, 2-methoxy-, acetate, which has the molecular formula $C_5H_{10}O_3$
- 105. 1-Propanol, 2-methoxy-, which has the molecular formula $C_4H_{10}O_2$
- 106. 2-Naphthalenol, 1-[(4-methyl-2-nitrophenyl)azo]-, which has the molecular formula $C_{17}H_{13}N_3O_3$
- 107. Ethanol, 2-(2-methoxyethoxy)-, which has the molecular formula $C_5H_{12}O_3$
- 108. Sulfuric acid, diethyl ester, which has the molecular formula $C_4H_{10}O_4S$
- 109. Sulfuric acid, dimethyl ester, which has the molecular formula $C_2H_6O_4S$
- 111. 2-Propenamide, which has the molecular formula C₃H₅NO
- 112. Ethanol, 2-chloro-, phosphate (3:1), which has the molecular formula $C_6H_{12}Cl_3O_4P$

- 113. Tributyltins, which contain the grouping $(C_4H_9)_3Sn$
- 114. Tetrabutyltins, which have the molecular formula $(C_4H_9)_4Sn$
- 115. Benzene, (chloromethyl)-, which has the molecular formula C_7H_7Cl
- 116. Propane, 2-nitro-, which has the molecular formula C₃H₇NO₂
- 117. Benzene, 1-methyl-2-nitro-, which has the molecular formula $C_7H_7NO_2$
- 118. Phenol, 2,6-bis(1,1-dimethylethyl)-4-(1-methylpropyl)-, which has the molecular formula $C_{18}H_{30}O$
- 119. Methylium, [4-(dimethylamino)phenyl]bis[4-(ethylamino)3-methylphenyl]-, acetate, which has the molecular formula $C_{27}H_{34}N_3.C_2H_3O_2$
- 120. Chlorinated alkanes that have the molecular formula $C_nH_xCl_{(2n+2-x)}$ in which $10 \le n \le 20$
- 121. Benzene, 1,2-dimethoxy-4-(2-propenyl)-, which has the molecular formula $C_{11}H_{14}O_2$
- 122. <u>Vanadium pentoxide</u>, which has the molecular formula V₂O₅
- 123. Oxirane, 2,2',2",2"'-[1,2-ethanediylidenetetrakis (4,1-phenyleneoxymethylene)]tetrakis-, which has the molecular formula $C_{38}H_{38}O_8$
- 124. Bromic acid, potassium salt, which has the molecular formula KBrO₃
- 125. <u>Polychlorinated naphthalenes</u>, which have the molecular formula $C_{10}H_{8-n}Cl_n$ in which "n" is greater than 1
- 126. <u>Hydrazine, which has the molecular formula N₂H₄</u>
- 127. <u>Hexabromocyclododecane</u>, which has the molecular formula $C_{12}H_{18}Br_6$
- 128. Quinoline, which has the molecular formula C₉H₇N
- 129. Perfluorooctanoic acid, which has the molecular formula $C_7F_{15}CO_2H$, and its salts
- 130. Compounds that consist of a perfluorinated alkyl group that has the molecular formula C_nF_{2n+1} in which n=7 or 8 and that is directly

- bonded to any chemical moiety other than a fluorine, chlorine or bromine atom
- 131. Perfluorocarboxylic acids that have the molecular formula $C_nF_{2n+1}CO_2H$ in which $8 \le n \le 20$ and their salts
- 132. Compounds that consist of a perfluorinated alkyl group that has the molecular formula $C_n F_{2n+1}$ in which $8 \le n \le 20$ and that is directly bonded to any chemical moiety other than a fluorine, chlorine or bromine atom
- 133. Plastic microbeads that are ≤ 5 mm in size
- 134. The following petroleum and refinery gases:
 - (a) tail gas (petroleum), catalytic polymerized naphtha fractionation stabilizer (a complex combination of hydrocarbons obtained from the fractionation stabilization products that result from the polymerization of naphtha consisting predominantly of hydrocarbons having carbon numbers in the range of C_1 through C_4)
 - **(b)** fuel gases (a combination of light gases consisting predominantly of hydrogen or low molecular weight hydrocarbons or both)
 - (c) hydrocarbons, C_2 - C_4 , C_3 -rich (a complex combination of hydrocarbons obtained from a treating process to remove sulphur and other acidic compounds consisting of hydrocarbons having carbon numbers in the range of C_2 through C_4 , predominantly propane and propene)
 - (d) gases (petroleum), butane splitter overhead (a complex combination of hydrocarbons obtained from the distillation of the butane stream consisting of aliphatic hydrocarbons having carbon numbers predominantly in the range of C_3 through C_4)
 - **(e)** gases (petroleum), catalytic cracked gas oil depropanizer bottom, C₄-rich acid-free (a complex combination of hydrocarbons obtained from the fractionation of catalytic cracked gas oil hydrocarbon stream and treated to remove hydrogen sulfide and

- other acidic components consisting of hydrocarbons having carbon numbers in the range of C_3 through C_5 , predominantly C_4)
- (f) gases (petroleum), catalytic cracked naphtha debutanizer bottom, C_3 - C_5 -rich (a complex combination of hydrocarbons obtained from the stabilization of catalytic cracked naphtha consisting of aliphatic hydrocarbons having carbon numbers predominantly in the range of C_3 through C_5)
- (g) gases (petroleum), catalytic cracked naphtha depropanizer overhead, C_3 -rich acid-free (a complex combination of hydrocarbons obtained from the fractionation of catalytic cracked hydrocarbons and treated to remove acidic impurities consisting of hydrocarbons having carbon numbers in the range of C_2 through C_4 , predominantly C_3)
- **(h)** gases (petroleum), catalytic cracker, C_1 - C_5 -rich (a complex combination of hydrocarbons obtained from the distillation of products that result from a catalytic cracking process consisting of aliphatic hydrocarbons having carbon numbers in the range of C_1 through C_6 , predominantly C_1 through C_5)
- (i) gases (petroleum), catalytic polymerized naphtha stabilizer overhead, C_2 - C_4 -rich (a complex combination of hydrocarbons obtained from the fractionation stabilization of catalytic polymerized naphtha consisting of aliphatic hydrocarbons having carbon numbers in the range of C_2 through C_6 , predominantly C_2 through C_4)
- (j) gases (petroleum), catalytic reformed naphtha stripper overhead (a complex combination of hydrocarbons obtained from the stabilization of catalytic reformed naphtha consisting of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4)
- **(k)** gases (petroleum), deethanizer overhead (a complex combination of hydrocarbons obtained from the distillation of the

- gas and gasoline fractions that result from a catalytic cracking process consisting predominantly of ethane and ethene)
- (I) gases (petroleum), deisobutanizer tower overhead (a complex combination of hydrocarbons obtained from the atmospheric distillation of a butane-butene stream consisting of aliphatic hydrocarbons having carbon numbers predominantly in the range of C_3 through C_4)
- (m) gases (petroleum), gas concentration reabsorber distillation (a complex combination of hydrocarbons obtained from the distillation of products from combined gas streams in a gas concentration reabsorber consisting predominantly of hydrogen, carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide and hydrocarbons having carbon numbers in the range of C_1 through C_3)
- (n) gases (petroleum), hydrogen-rich (a complex combination separated as a gas from hydrocarbon gases by chilling consisting predominantly of hydrogen with small amounts of carbon monoxide, nitrogen, methane and C_2 hydrocarbons)
- (o) gases (petroleum), recycle, hydrogen-rich (a complex combination obtained from recycled reactor gases consisting predominantly of hydrogen with small amounts of carbon monoxide, carbon dioxide, nitrogen, hydrogen sulfide and saturated aliphatic hydrocarbons having carbon numbers in the range of C_1 through C_5)
- (**p**) gases (petroleum), reformer make-up, hydrogen-rich (a complex combination obtained from the reformers consisting predominantly of hydrogen with small amounts of carbon monoxide and aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5)
- (q) gases (petroleum), thermal cracking distillation (a complex combination obtained from the distillation of products that result from a thermal cracking process consisting of hydrogen, hydrogen

- sulfide, carbon monoxide, carbon dioxide and hydrocarbons having carbon numbers predominantly in the range of C_1 through C_6)
- (r) tail gas (petroleum), catalytic cracker refractionation absorber (a complex combination of hydrocarbons obtained from the refractionation of products that result from a catalytic cracking process consisting of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C_1 through C_3)
- (s) tail gas (petroleum), cracked distillate hydrotreater separator (a complex combination of hydrocarbons obtained by treating cracked distillates with hydrogen in the presence of a catalyst consisting of hydrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5)
- (t) tail gas (petroleum), saturate gas plant mixed stream, C_4 -rich (a complex combination of hydrocarbons obtained from the fractionation stabilization of straight-run naphtha, distillation tail gas and catalytic reformed naphtha stabilizer tail gas consisting of hydrocarbons having carbon numbers in the range of C_3 through C_6 , predominantly butane and isobutane)
- (u) tail gas (petroleum), vacuum residue thermal cracker (a complex combination of hydrocarbons obtained from the thermal cracking of vacuum residues consisting of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5)
- (v) hydrocarbons, C_3 - C_4 -rich, petroleum distillates (a complex combination of hydrocarbons obtained from the distillation and condensation of crude oil consisting of hydrocarbons having carbon numbers in the range of C_3 through C_5 , predominantly C_3 and C_4)
- **(w)** gases (petroleum), hydrocracking depropanizer off, hydrocarbon-rich (a complex combination of hydrocarbons obtained from the distillation of products that result from a hydrocracking process consisting predominantly of hydrocarbons

- having carbon numbers predominantly in the range of C_1 through C_4)
- (x) gases (petroleum), light straight-run naphtha stabilizer off (a complex combination of hydrocarbons obtained from the stabilization of light straight-run naphtha consisting of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_2 through C_6)
- **(y)** gases (petroleum), reformer effluent high-pressure flash drum off (a complex combination obtained from the high-pressure flashing of the effluent from the reforming reactor consisting predominantly of hydrogen with small amounts of methane, ethane and propane)
- (z) hydrocarbons, C_1 - C_4 (a complex combination of hydrocarbons obtained from thermal cracking and absorber operations and from the distillation of crude oil consisting of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4 and boiling in the range of approximately -164°C to -0.5°C)
- (**z.1**) hydrocarbons, C_1 - C_4 , sweetened (a complex combination of hydrocarbons obtained by subjecting hydrocarbon gases to a sweetening process to convert mercaptans or to remove acidic impurities consisting of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4 and boiling in the range of approximately -164°C to -0.5°C)
- (z.2) hydrocarbons, C_1 - C_3 (a complex combination of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_3 and boiling in the range of approximately -164°C to -42°C)
- (z.3) gases (petroleum), C_1 - C_5 , wet (a complex combination of hydrocarbons obtained from the distillation of crude oil or the cracking of tower gas oil or both consisting of hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5)

- (z.4) gases (petroleum), secondary absorber off, fluidized catalytic cracker overhead fractionater (a complex combination obtained from the fractionation of the overhead products that result from a catalytic cracking process in the fluidized catalytic cracker consisting of hydrogen, nitrogen and hydrocarbons having carbon numbers predominantly in the range of C_1 through C_3)
- (**z.5**) gases (petroleum), alkylation feed (a complex combination of hydrocarbons obtained from the catalytic cracking of gas oil consisting of hydrocarbons having carbon numbers predominantly in the range of C_3 through C_4)
- **(z.6)** petroleum products, refinery gases (a complex combination consisting predominantly of hydrogen with small amounts of methane, ethane and propane)
- (z.7) gases (petroleum), refinery (a complex combination obtained from various petroleum refining operations consisting of hydrogen and hydrocarbons having carbon numbers predominantly in the range of C_1 through C_3)
- (z.8) gases (petroleum), hydrotreated sour kerosine depentanizer stabilizer off (a complex combination obtained from the depentanizer stabilization of hydrotreated kerosine consisting predominantly of hydrogen, methane, ethane and propane with small amounts of nitrogen, hydrogen sulfide, carbon monoxide and hydrocarbons having carbon numbers predominantly in the range of C_4 through C_5)
- (z.9) gases (petroleum), crude oil fractionation off (a complex combination of hydrocarbons obtained from the fractionation of crude oil consisting of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5) (z.10) gases (petroleum), fluidized catalytic cracker fractionation off
- (a complex combination obtained from the fractionation of the overhead products that result from a fluidized catalytic cracking

- process consisting of hydrogen, hydrogen sulfide, nitrogen and hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5)
- (z.11) gases (petroleum), heavy distillate hydrotreater desulfurization stripper off (a complex combination stripped from the liquid product that results from a heavy distillate hydrotreater desulfurization process consisting of hydrogen, hydrogen sulfide and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5)
- (z.12) gases (petroleum), preflash tower off, crude distillation (a complex combination produced from the first tower used in the distillation of crude oil consisting of nitrogen and saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_5)
- (z.13) gases (petroleum), straight-run stabilizer off (a complex combination of hydrocarbons obtained from the fractionation of the liquid produced from the first tower used in the distillation of crude oil consisting of saturated aliphatic hydrocarbons having carbon numbers predominantly in the range of C_1 through C_4)
- **(z.14)** tail gas (petroleum), catalytic hydrodesulfurized naphtha separator (a complex combination of hydrocarbons obtained from the catalytic hydrodesulfurization of naphtha consisting of hydrogen, methane, ethane and propane)
- (**z.15**) gases (petroleum), C_3 - C_4 (a complex combination of hydrocarbons obtained from the distillation of products that result from the cracking of crude oil consisting of hydrocarbons having carbon numbers in the range of C_3 through C_4 , predominantly propane and propene, and boiling in the range of approximately -51°C to -1°C)
- **(z.16)** gases (petroleum), C_3 - C_4 , isobutane-rich (a complex combination of hydrocarbons obtained from the distillation of

saturated and unsaturated hydrocarbons having carbon numbers predominantly in the range of C_3 through C_6 , predominantly butane and isobutane - consisting of saturated and unsaturated hydrocarbons having carbon numbers in the range of C_3 through C_4 , predominantly isobutane)

- (z.17) gases (petroleum), C_4 -rich (a complex combination of hydrocarbons obtained from the distillation of products that result from a catalytic fractionation process consisting of aliphatic hydrocarbons having carbon numbers in the range of C_3 through C_5 , predominantly C_4)
- (**z.18**) hydrocarbons, C_1 - C_4 , debutanizer fraction (a complex combination of hydrocarbons obtained from a debutanizing process having carbon numbers in the range of C_1 through C_4) (**z.19**) petroleum gases, liquefied (a complex combination of hydrocarbons obtained from the distillation of crude oil consisting of hydrocarbons having carbon numbers predominantly in the range of C_3 through C_7 and boiling in the range of approximately -40°C to 80°C) and
- (z.20) petroleum gases, liquefied, sweetened (a complex combination of hydrocarbons obtained by subjecting liquefied petroleum gases to a sweetening process to convert mercaptans or to remove acidic impurities consisting of hydrocarbons having carbon numbers predominantly in the range of C_3 through C_7 and boiling in the range of approximately -40°C to 80°C)
- 135. <u>Hexanedioic acid, bis(2-ethylhexyl) ester, which has the molecular formula $C_{22}H_{42}O_4$ </u>
- 136. Reaction products of 2-propanone with diphenylamine
- 137. <u>2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, which has the molecular formula $C_{22}H_{16}N_4O$ </u>
- 138. Fuel Oil No. 2

- 139. Natural gas condensates (a complex combination of hydrocarbons primarily in the carbon range of C_5 to C_{15} that are condensed during production at a well head, in a natural gas processing plant, natural gas pipeline or straddle plant), including any of their liquid distillates that are primarily in the carbon range of C_5 to C_{15}
- 140. Phenol, 5-chloro-2-(2,4-dichlorophenoxy)-, which has the molecular formula $C_{12}H_7Cl_3O_2$
- 141. Acetamide, N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]-, which has the molecular formula $C_{15}H_{15}N_3O_2$
- 142. Cobalt and soluble cobalt compounds
- 143. N,N'-mixed phenyl and tolyl derivatives of 1,4-benzenediamine
- 144. Benzene, 1-chloro-2-[2,2-dichloro-1-(4- chlorophenyl)ethyl]-, which has the molecular formula $C_{14}H_{10}Cl_4$
- 146. Selenium and its compounds
- 147. Benzene, 1,1'-methylenebis[4-isocyanato-, which has the molecular formula $C_{15}H_{10}N_2O_2$
- 148. Benzene, 1,1'-methylenebis[2-isocyanato-, which has the molecular formula $C_{15}H_{10}N_2O_2$
- 149. Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-, which has the molecular formula $C_{15}H_{10}N_2O_2$
- 150. Benzene, 1,1'-methylenebis[isocyanato- (non-isomeric-specific), which has the molecular formula $C_{15}H_{10}N_2O_2$
- 151. Isocyanic acid, polymethylenepolyphenylene ester, which has the molecular formula $C_{15}H_{10}N_2O_2 \cdot [C_8H_5NO]_n$ in which $0 \le n \le 4$
- 163. Plastic manufactured items

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