

Environmental Protection Agency

Monday
October 17, 1988

Part V

Environmental Protection Agency

Premanufacture Notices; Monthly Status
Report for July 1988

**ENVIRONMENTAL PROTECTION
AGENCY**

(OPTS-53108; FRL-3453-1)

**Premanufacture Notices; Monthly
Status Report for July 1988**
AGENCY: Environmental Protection
Agency (EPA).

ACTION: Notice.

SUMMARY: Section 5(d)(3) of the Toxic Substance Control Act (TSCA) requires EPA to issue a list in the Federal Register each month reporting the premanufacture notices (PMNs) and exemption request pending before the Agency and the PMNs and exemption requests for which the review period has expired since publication of the last monthly summary. This is the report for July 1988.

Nonconfidential portions of the PMNs and exemption request may be seen in the Public Reading Room NE-G004 at the address below between 8:00 a.m. and 4:00 p.m., Monday thru Friday, excluding legal holidays.

ADDRESS: Written comments, identified with the document control number "(OPTS-53108)" and the specific PMN and exemption request number should be sent to: Document Processing Center (TS-790), Office of Toxic Substance, Environmental Protection Agency, Rm. L-100, 401 M Street, SW., Washington, DC 20460, (202) 554-1305.

FOR FURTHER INFORMATION CONTACT: Lawrence Cullen, Premanufacture Notice Management Branch, Chemical Control Division (TS-794), Office of Toxic Substances, Environmental Protection Agency, Rm. E-611, 401 M Street, SW., Washington, DC 20460 (202) 382-3725.

SUPPLEMENTARY INFORMATION: The monthly status report published in the Federal Register as required under section 5(d)(3) of TSCA (90 Stat. 2012 (15 U.S.C. 2504)), will identify: (a) PMNs received during July; (b) PMNs received previous and still under review at the end of July; (c) PMNs for which the notice review period has ended during July; (d) chemical substances for which EPA has received a notice of commencement to manufacture during July; and (e) PMNs for which the review period has been suspended. Therefore, the July 1988 PMN Status Report is being published.

Date: September 13, 1988.

Steven Newburg-Rinn,
*Acting Chief, Public Data Branch, Information
Management Division, Office of Toxic
Substances.*

**Premanufacture Notice Monthly Status
Report, July 1988**
**I. 129 PREMANUFACTURE NOTICES
AND EXEMPTION REQUESTS RE-
CEIVED DURING THE MONTH**
PMN No.

| | |
|-----------|-----------|
| P 88-1637 | P 88-1702 |
| P 88-1638 | P 88-1703 |
| P 88-1639 | P 88-1704 |
| P 88-1640 | P 88-1705 |
| P 88-1641 | P 88-1706 |
| P 88-1642 | P 88-1707 |
| P 88-1643 | P 88-1708 |
| P 88-1644 | P 88-1709 |
| P 88-1645 | P 88-1710 |
| P 88-1648 | P 88-1711 |
| P 88-1647 | P 88-1712 |
| P 88-1648 | P 88-1713 |
| P 88-1649 | P 88-1714 |
| P 88-1650 | P 88-1715 |
| P 88-1651 | P 88-1718 |
| P 88-1652 | P 88-1717 |
| P 88-1653 | P 88-1718 |
| P 88-1654 | P 88-1719 |
| P 88-1655 | P 88-1720 |
| P 88-1656 | P 88-1721 |
| P 88-1657 | P 88-1722 |
| P 88-1658 | P 88-1723 |
| P 88-1659 | P 88-1724 |
| P 88-1660 | P 88-1725 |
| P 88-1661 | P 88-1726 |
| P 88-1662 | P 88-1727 |
| P 88-1663 | P 88-1728 |
| P 88-1664 | P 88-1729 |
| P 88-1665 | P 88-1730 |
| P 88-1666 | P 88-1731 |
| P 88-1667 | P 88-1732 |
| P 88-1668 | P 88-1733 |
| P 88-1669 | P 88-1734 |
| P 88-1670 | P 88-1735 |
| P 88-1671 | P 88-1738 |
| P 88-1672 | P 88-1737 |
| P 88-1673 | P 88-1738 |
| P 88-1674 | P 88-1739 |
| P 88-1675 | P 88-1740 |
| P 88-1676 | P 88-1741 |
| P 88-1677 | P 88-1742 |
| P 88-1678 | P 88-1743 |
| P 88-1679 | Y 88-0213 |
| P 88-1680 | Y 88-0214 |
| P 88-1681 | Y 88-0215 |
| P 88-1682 | Y 88-0218 |
| P 88-1683 | Y 88-0217 |
| P 88-1684 | Y 88-0218 |
| P 88-1685 | Y 88-0219 |
| P 88-1686 | Y 88-0220 |
| P 88-1687 | Y 88-0221 |
| P 88-1688 | Y 88-0222 |
| P 88-1689 | Y 88-0223 |
| P 88-1690 | Y 88-0224 |
| P 88-1691 | Y 88-0225 |
| P 88-1692 | Y 88-0226 |
| P 88-1693 | Y 88-0227 |
| P 88-1694 | Y 88-0228 |
| P 88-1695 | Y 88-0229 |
| P 88-1696 | Y 88-0230 |
| P 88-1697 | Y 88-0231 |
| P 88-1698 | Y 88-0232 |
| P 88-1699 | Y 88-0233 |
| P 88-1700 | Y 88-0234 |
| P 88-1701 | |

**II. 279 PREMANUFACTURE NOTICES
RECEIVED PREVIOUSLY AND STILL
UNDER REVIEW AT THE END OF THE
MONTH**
PMN No.

| | |
|-----------|-----------|
| P 83-0669 | P 87-1770 |
| P 84-1182 | P 87-1787 |
| P 84-1183 | P 87-1830 |
| P 85-0218 | P 87-1865 |
| P 85-0535 | P 87-1872 |
| P 85-0536 | P 87-1879 |
| P 85-0619 | P 87-1881 |
| P 85-0718 | P 87-1882 |
| P 85-0941 | P 88-0049 |
| P 86-0065 | P 88-0079 |
| P 86-0066 | P 88-0083 |
| P 86-0067 | P 88-0134 |
| P 86-0092 | P 88-0138 |
| P 86-0294 | P 88-0158 |
| P 86-0295 | P 88-0157 |
| P 86-0592 | P 88-0182 |
| P 86-1078 | P 88-0195 |
| P 86-1189 | P 88-0225 |
| P 86-1235 | P 88-0245 |
| P 86-1356 | P 88-0275 |
| P 86-1602 | P 88-0290 |
| P 86-1603 | P 88-0319 |
| P 86-1604 | P 88-0320 |
| P 86-1607 | P 88-0353 |
| P 87-0057 | P 88-0387 |
| P 87-0058 | P 88-0388 |
| P 87-0059 | P 88-0393 |
| P 87-0068 | P 88-0410 |
| P 87-0105 | P 88-0438 |
| P 87-0197 | P 88-0468 |
| P 87-0198 | P 88-0515 |
| P 87-0199 | P 88-0522 |
| P 87-0200 | P 88-0547 |
| P 87-0201 | P 88-0587 |
| P 87-0223 | P 88-0568 |
| P 87-0326 | P 88-0576 |
| P 87-0641 | P 88-0598 |
| P 87-0642 | P 88-0602 |
| P 87-0770 | P 88-0606 |
| P 87-0794 | P 88-0622 |
| P 87-0830 | P 88-0658 |
| P 87-0931 | P 88-0671 |
| P 87-0963 | P 88-0701 |
| P 87-0871 | P 88-0715 |
| P 87-0973 | P 88-0728 |
| P 87-1028 | P 88-0759 |
| P 87-1041 | P 88-0770 |
| P 87-1066 | P 88-0792 |
| P 87-1104 | P 88-0831 |
| P 87-1192 | P 88-0836 |
| P 87-1226 | P 88-0837 |
| P 87-1227 | P 88-0854 |
| P 87-1273 | P 88-0862 |
| P 87-1337 | P 88-0864 |
| P 87-1379 | P 88-0875 |
| P 87-1417 | P 88-0884 |
| P 87-1436 | P 88-0886 |
| P 87-1437 | P 88-0888 |
| P 87-1471 | P 88-0889 |
| P 87-1542 | P 88-0890 |
| P 87-1546 | P 88-0894 |
| P 87-1547 | P 88-0898 |
| P 87-1548 | P 88-0900 |
| P 87-1549 | P 88-0914 |
| P 87-1555 | P 88-0918 |
| P 87-1873 | P 88-0972 |
| P 87-1676 | P 88-0981 |
| P 87-1677 | P 88-0985 |
| P 87-1679 | P 88-0997 |
| P 87-1680 | P 88-0998 |
| P 87-1694 | P 88-0999 |
| P 87-1759 | P 88-1000 |
| P 87-1769 | P 88-1005 |

P 88-1020
P 88-1021
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Y 88-0220
Y 88-0221
Y 88-0223

III. 183 PREMANUFACTURE NOTICES AND EXEMPTION REQUEST FOR WHICH THE NOTICE REVIEW PERIOD HAS ENDED DURING THE MONTH. (EXPIRATION OR THE NOTICE REVIEW PERIOD DOES NOT SIGNIFY THAT THE CHEMICAL HAS BEEN ADDED TO THE INVENTORY)

PMN No.

P 85-0901
P 87-0318
P 87-0548
P 87-0640
P 87-1159
P 87-1201
P 87-1553
P 87-1760
P 87-1784
P 87-1830
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P 88-0288
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P 88-0527
P 88-0712
P 88-0713
P 88-0758
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P 88-1189
P 88-1170
P 88-1171
P 88-1172
P 88-1173

IV. 163 CHEMICAL SUBSTANCES FOR WHICH EPA HAS RECEIVED NOTICES OF COMMENCEMENT TO MANUFACTURE

| PMN No. | Identity/generic name | Date of commencement |
|-----------|--|----------------------|
| P 80-0010 | G Substituted ketone pyran..... | Sept. 10, 1987. |
| P 80-0020 | G Polymer of alkyl amine methacrylic acid ester, alkylmethacrylate and styrene..... | June 23, 1988. |
| P 82-0289 | Polymer of ethylene oxide, bisphenol A, epichlorohydrin, acrylonitrile, ethylene oxides, xylenediamine and isophorondiamine. | Mar. 25, 1988. |
| P 82-0298 | G Polymer of alkyl acrylate and acrylamide..... | Aug. 20, 1984. |
| P 82-0650 | G Pentasubstituted pentanamide..... | May 10, 1988. |
| P 83-0104 | G Polyamine urea formaldehyde condensate..... | May 12, 1988. |
| P 83-0603 | G Substituted nitrile..... | Oct. 6, 1983. |
| P 84-0266 | G Modified fluoroalkyl urethane..... | June 30, 1988. |
| P 84-0341 | Polyoxy(1-oxo-1,6-hexanediyl), alpha-hydro-omega-hydroxy-ester with 3-hydroxy-2,2-dimethylpropyl 3-hydroxy-2,2-dimethylpropanoate(2:1), di-2-propanoate. | May 20, 1985. |
| P 84-0571 | Benzene, 1,1'-ethylidenebis..... | May 20, 1988. |
| P 84-0584 | G Methyl alkanoate ester..... | Jan. 1, 1985. |
| P 84-0589 | G Hydrazone..... | June 20, 1988. |

IV. 163 CHEMICAL SUBSTANCES FOR WHICH EPA HAS RECEIVED NOTICES OF COMMENCEMENT TO MANUFACTURE—Continued

| PMN No. | Identity/generic name | Date of commencement |
|-----------|---|----------------------|
| P 84-0590 | G Azopigment..... | Do. |
| P 84-0598 | G Alkoxy functional alkyl substituted silicone resin..... | Dec. 28, 1984. |
| P 85-1106 | G Alkenyl acetate..... | Apr. 14, 1988. |
| P 86-0007 | Polymer of: terephthalic acid; isophthalic acid; adipic acid; trimellitic anhydride; 2,2-dimethyl-1,3-propanediol; ethylene glycol; and trimethylolpropane. | May 25, 1988. |
| P 86-0256 | G Substituted heterocycle azo naphthalenesulfonic acid, salt..... | Feb. 22, 1988. |
| P 86-0447 | G Tricyclic olefinic hydrocarbons..... | Apr. 30, 1986. |
| P 86-0571 | Alkenes reaction products with 2,5-furandione substituted alkyl amines..... | Nov. 13, 1987. |
| P 86-0874 | G Organosulfur modified epdm..... | June 15, 1988. |
| P 86-0887 | G Fluorinated telomer..... | June 27, 1988. |
| P 86-1106 | G Acid acid, cyano-, butyl ester..... | Apr. 14, 1988. |
| P 86-1162 | G Copper complex of substituted (substituted sulfonaphthyl)(hydroxysulf phenyl azo substituted sulfonaphthyl) triazine, sodium salt. | May 6, 1988. |
| P 86-1712 | G Alkoxyated diphenol..... | June 9, 1988. |
| P 87-0044 | Naphthalene, 2-diazo-8-sulfo-6-((2 (sulfoxy)ethyl) sulfonyl), hydrogen sulfate..... | May 20, 1988. |
| P 87-0158 | 4-Ethenylphenol acetate..... | Aug. 17, 1987. |
| P 87-0288 | G Substituted naphthalene sulfonic acid..... | May 20, 1988. |
| P 87-0349 | G Partially crosslinked saturated polyester with medium number-average molecular weight..... | July 10, 1987. |
| P 87-0366 | Polymer of trichloromethylsilane; dichlorodimethylsilane; and trichlorophenylsilane..... | Nov. 14, 1987. |
| P 87-0378 | G Thio-organotin complex..... | May 6, 1988. |
| P 87-0412 | G Copolyester..... | June 22, 1988. |
| P 87-0419 | G Vinylic methyl hydro polysilane..... | May 14, 1988. |
| P 87-0673 | G Diphenylmethane-4,4-diisocyanate, polymer with (1,3-benzenedicarboxylic acid, polymer with 1,4-benzenedicarboxylic acid, 2,2-dimethyl-1,3-propanediol and (cyclotetrasiloxane octane polymer with 3,3-(1,1,3,3-tetramethyl-1,3-disiloxanediy)bis(1-propaneamine). | June 13, 1987. |
| P 87-0707 | Poly(ester-amide)..... | May 15, 1988. |
| P 87-0713 | G Cyclic amide-aldehyde polymer..... | June 30, 1988. |
| P 87-0752 | Hexane-1,6-diisocyanate oligomers with polyol modification..... | June 29, 1988. |
| P 87-0776 | G Sodium salt of dicarboxylic acid..... | May 11, 1988. |
| P 87-0796 | G Substituted benzothiazole sulfonic acid..... | May 20, 1988. |
| P 87-0916 | G Isocyanate capped epoxy resin..... | May 31, 1988. |
| P 87-1022 | G Alicyclic aliphatic polyester..... | May 26, 1988. |
| P 87-1051 | G Polycarbonate polyurethane dispersion..... | June 8, 1988. |
| P 87-1063 | G Solid bisphenol a type epoxy resin..... | June 1, 1988. |
| P 87-1076 | G Polyetheramide based on nylon 6-monomers..... | Nov. 12, 1987. |
| P 87-1126 | G 1,1'-ethylene-2,2'bipyridylum dibromide..... | Dec. 10, 1987. |
| P 87-1197 | G Humic acid, sodium salt, tetrapolymer with acrylic monomers..... | June 21, 1988. |
| P 87-1301 | G Polycondensate of formaldehyde with amines..... | May 17, 1988. |
| P 87-1302 | G Isobenzofuranone, 3,4-(diethylamino-2-hydroxyphenyl)-3-(2-methoxy-4-methyl-5-arylphenyl)-..... | July 11, 1988. |
| P 87-1330 | G 1,4-Benzenedicarbonyl dichloride polymer with bis(4-phenoxyphenyl) methanol and substituted benzene..... | Sept. 25, 1987. |
| P 87-1360 | G Aromatic sulfonyl chloride..... | May 23, 1988. |
| P 87-1382 | G Copolyamide of caprolactam, hexamethylene diamine and azelic acid..... | May 4, 1988. |
| P 87-1498 | Buten-2-oic acid, cyclohexyl ester..... | Apr. 28, 1988. |
| P 87-1513 | Olefin terminated polythioether polymer..... | Nov. 5, 1987. |
| P 87-1526 | Mercaptan terminated polythioether polymer..... | Nov. 25, 1987. |
| P 87-1554 | G Polyfluorinated copolymers..... | June 27, 1988. |
| P 87-1560 | G Poly(propylene carbonate)..... | Apr. 14, 1988. |
| P 87-1612 | G Polyester from aromatic dicarboxylic acid ester, aliphatic diols and oxirane polymer..... | May 19, 1988. |
| P 87-1631 | G Alkenes, long chain alkyl..... | May 10, 1988. |
| P 87-1641 | G Vinylidene chloride/butadiene polymer with alkanedioic and alkanedioic acids..... | June 6, 1988. |
| P 87-1642 | G Vinylidene chloride, butadiene, polymer with alkane dioic acid..... | June 10, 1988. |
| P 87-1678 | 3-dodeceny-1-(2,2,6,6-pentamethyl-4-piperidiny)-5-pyrrolidinedione..... | June 16, 1988. |
| P 87-1798 | G Alkylester functionalized colloidal silica..... | May 18, 1988. |
| P 87-1817 | G Aromatic anhydride..... | Apr. 8, 1988. |
| P 87-1832 | G Calcium salt of butyric acid telomer..... | Mar. 12, 1988. |
| P 87-1834 | G Acrylic copolymer resin..... | Mar. 11, 1988. |
| P 87-1838 | G Acrylic lactone copolymer..... | Apr. 21, 1988. |
| P 87-1839 | G Acrylic lactone copolymer..... | Apr. 29, 1988. |
| P 87-1840 | G Alkoxyated amine alcohol..... | Dec. 20, 1987. |
| P 87-1842 | Polymer of dimethylterephthalene; ethylene glycol; neopentyl glycol; isophthalic acid; adipic acid..... | Feb. 22, 1988. |
| P 87-1844 | Toluene..... | Apr. 12, 1988. |
| P 87-1847 | G Organosilane..... | May 7, 1988. |
| P 87-1848 | Organopolysiloxane..... | Do. |
| P 87-1868 | G Chloroalkylchlorosilane..... | Mar. 14, 1988. |
| P 87-1869 | G Amino alkyl silane..... | Do. |
| P 87-1874 | G Bismalimide..... | Mar. 15, 1988. |
| P 87-1887 | G Modified acrylic copolymer..... | Feb. 5, 1988. |
| P 87-1901 | G Methoxy-methacrylate siloxane..... | Mar. 14, 1988. |
| P 87-1902 | G Organofunctional Polysiloxane..... | Do. |

IV. 163 CHEMICAL SUBSTANCES FOR WHICH EPA HAS RECEIVED NOTICES OF COMMENCEMENT TO MANUFACTURE—Continued

| PMN No. | Identity/generic name | Date of commencement |
|-----------|---|----------------------|
| P 87-1903 | G Polydimethylsiloxane..... | Mar. 14, 1988. |
| P 88-0027 | G Substituted phenyl bis(substituted aminophenyl) methylum salt. | June 1, 1988. |
| P 88-0037 | G Self-crosslinking, blocked polyurethane system | May 23, 1988. |
| P 88-0057 | Adduct of maleated polyene and aminopropyl triethoxysilane | Feb. 11, 1988. |
| P 88-0062 | Dimer diisocyanate reaction polybutadiene | May 9, 1988. |
| P 88-0075 | G Styrene/butadiene/polymer with alkanic acid and alkane ester | June 7, 1988. |
| P 88-0119 | G Carbopolycyclic methyl ammonium polycycle chloride | June 22, 1988. |
| P 88-0144 | G Alkyd resin | May 4, 1988. |
| P 88-0375 | G Amine-modified polyalkylene glycol polymer | Apr. 5, 1988. |
| P 88-0379 | G Aromatic ketone | Apr. 4, 1988. |
| P 88-0380 | G Polyether ketone | Apr. 13, 1988. |
| P 88-0385 | G Acryl styrene resin with cross-linking 1,3,5-triazine-2,4,6-triamine, N,N,N,N,N-hexakis-methoxymethyl(methyloxymethyl). | Mar. 13, 1988. |
| P 88-0386 | G Hydroxy resin..... | Apr. 20, 1988. |
| P 88-0390 | G Copolyester..... | June 10, 1988. |
| P 88-0397 | G polyester acetate | Apr. 18, 1988. |
| P 88-0400 | G N-(Substituted-imidazolium chloride)-alkyl stearamide | Mar. 30, 1988. |
| P 88-0421 | G Trialkyl triazine..... | May 23, 1988. |
| P 88-0432 | lh-Pyrole-2,5-dione, 1,1'-(methylenedi-4,1-phenylene)bis-, polymer with 4,4'-methylenebis(benzenamine), modified..... | Mar. 20, 1988. |
| P 88-0433 | lh-Pyrole-2,5-dione, 1,1'-(methylenedi-4,1-phenylene)bis-, polymer with 4,4'-methylenebis(benzenamine) modified | Do. |
| P 88-0444 | G Precious metal plating solution | Mar. 21, 1988. |
| P 88-0445 | G Precious metal plating solution | Do. |
| P 88-0447 | G Substituted benzene sulfonic acid | May 25, 1988. |
| P 88-0486 | Polymer of 1-ethenyl-4-methylbenzene, 2-ethylhexyl ester 2-propenoic acid, 2-methyl-2-propenoic acid-2-methyl propyl ester, and 2-methyl-2-propanoic acid-1,2-ethanediyl ester. | May 11, 1988. |
| P 88-0495 | G Substituted Phenylpolyoxyalkylene | Mar. 29, 1988. |
| P 88-0496 | G Disubstituted naphthol-azo-carboxyclepolyoxyalkylene | Do. |
| P 88-0497 | G Trisubstituted naphthol-azo-carboxyclepolyoxyalkylene..... | Do. |
| P 88-0498 | G Substituted phenylpolyoxyalkylene | Do. |
| P 88-0500 | G Rubber modified polyamide | Apr. 22, 1988. |
| P 88-0501 | G Aliphatic aromatic reaction products | Do. |
| P 88-0502 | G S-Triaryl-branched aryl-alkyl-aryl-capped polycarbonate | Apr. 19, 1988. |
| P 88-0505 | G Hydroxypropyl acrylate, acrylic acid polymer, ammonium salt | Apr. 6, 1988. |
| P 88-0517 | 2-Methyl-1-pentyloxy magnesium chloride | June 6, 1988. |
| P 88-0548 | G Water-reducible styrenated alkyd resin | Apr. 11, 1988. |
| P 88-0557 | G Polysubstituted-substituted-benzene | June 2, 1988. |
| P 88-0558 | G Hydroxyacrylic resin | May 6, 1988. |
| P 88-0559 | 1,3 Isobenzofurandione, 5,5'-(2,2,2-trifluoro-1-trifluoromethyl)ethylidene, bis-, benzenamine,3-ethoxyl-, benzenamine, 3,3'-(Phenylenebis(oxy)bis-. | June 21, 1988. |
| P 88-0584 | G Polydimethylsiloxane..... | June 20, 1988. |
| P 88-0588 | G Acrylic copolymer emulsion | Apr. 19, 1988. |
| P 88-0592 | G Aliphatic polyester polyurethane | June 15, 1988. |
| P 88-0608 | G Halogenated alkane..... | May 25, 1988. |
| P 88-0620 | G Derivative of poly(oxy(1-ethyl-1,2-ethanediyl))-alpha-(p-tetra(propene)-phenoxy-omega-hydro)ester with carbonochloridic acid. | May 16, 1988. |
| P 88-0638 | G Isophorone diisocyanate and methylenebis(4-cyclohexylisocyanate)-terminated polytetrahydrofuran and ethylene oxide-capped polypropylene glycol. | June 22, 1988. |
| P 88-0643 | G Benzyl-alkyl-substituted-ammonium salt | May 23, 1988. |
| P 88-0666 | G Aromatic polyester carbonate | July 1, 1988. |
| P 88-0678 | G Trialkoxysilane derivative | June 6, 1988. |
| P 88-0679 | G Trialkoxysilane derivative | Do. |
| P 88-0690 | G Vinylacrylic, vinylheterocycle, vinylalkoxysilane, vinylhal acrylate copolymer, alkenate modified | June 22, 1988. |
| P 88-0691 | G Nonylphenol capped polyurethane prepolymer..... | July 14, 1988. |
| P 88-0695 | G Substituted polysiloxane..... | June 29, 1988. |
| P 88-0698 | G Silicone blocked copolymer | May 24, 1988. |
| P 88-0707 | G Substituted N,N-dimethylcarboxamide heterocycle | May 15, 1988. |
| P 88-0804 | G Saturated polyester | June 23, 1988. |
| P 88-0835 | G Substituted-imidazolyl-substituted-alkylamino-substituted-benzoic acid derivative | May 25, 1988. |
| P 88-0858 | G Organo epoxy silicone | June 30, 1988. |
| P 88-0871 | Diphenyl methane diisocyanate, polypropylene glycol, poly(oxypropylene) glycerol polymer blocked with methyl ethyl ketoxime. | May 31, 1988. |
| P 88-0872 | Toluenediisocyanate, polybutylene glycol, trimethylpropane polymer blocked with epsilon-caprolactum..... | Do. |
| P 88-0893 | G Reaction product of polytetramethylene ether glycol, methylene bis(phenyl isocyanate), and diol | July 1, 1988. |
| P 88-0950 | G Benzenepolycarboxylic acid, alkyl ester..... | June 6, 1988. |
| P 88-0965 | G Vinyl-acrylic copolymer..... | June 15, 1988. |
| P 88-0968 | G Di(polyoxyethylene) alkyl ether phosphate | June 10, 1988. |
| P 88-0973 | G Carbamic acid, 1,6-hexanediylbis-, diethyl ester | June 17, 1988. |
| P 88-0990 | G Oxirane/anhydride polyester resin..... | June 13, 1988. |
| P 88-1004 | G Hydroxy-substituted polyester | July 6, 1988. |

IV. 163 CHEMICAL SUBSTANCES FOR WHICH EPA HAS RECEIVED NOTICES OF COMMENCEMENT TO MANUFACTURE—Continued

| PMN No. | Identity/generic name | Date of commencement |
|-----------|---|----------------------|
| P 88-1068 | G Fatty acid copolymer | June 26, 1988. |
| P 88-1108 | G Alcohols, C16-12, ethoxylated, reaction product with maleic anhydride | July 20, 1988. |
| P 88-1634 | G Substituted malononitrile | May 4, 1988. |
| Y 87-0077 | G Poly(oxy-1,4-butanediylloxycarbonyl-1,4-phenylene-carbonyl), reaction product with hexosubstituted heteromonocycle. | May 9, 1988. |
| Y 87-0180 | G Copolyester | May 23, 1988. |
| Y 88-0054 | G Styrene copolymer | Apr. 26, 1988. |
| Y 88-0077 | G Acrylic copolymer, ammonium salt | May 9, 1988. |
| Y 88-0106 | 2- Methylpentamethylenediamin; zinc oxide;isophthalic acid; orthophosphorous acid; high molecular weight aliphatic primary alcohol; | June 1, 1988. |
| Y 88-0128 | Polyacrylic acid, partial sodium salt; modified polyacrylic acid | Mar. 31, 1988. |
| Y 88-0130 | Polymer of aromatic diacid, alkanediol, and branched alkanediol | Apr. 23, 1988. |
| Y 88-0135 | G Rosin modified phenolic resin | April 24, 1988. |
| Y 88-0136 | G Rosin modified phenolic resin | Do. |
| Y 88-0139 | G Polymer of aromatic diacid, alkanediol, and branched-alkanediol | May 2, 1988. |
| Y 88-0140 | G Aliphatic polyester urethane | Apr. 8, 1988. |
| Y 88-0169 | G Polyether-type polyurethane | May 31, 1988. |
| Y 88-0170 | G Unsaturated polyester resin | May 6, 1988. |
| Y 88-0171 | G Random copolymer emulsion | Do. |
| Y 88-0176 | G Butadiene-containing polymer | May 10, 1988. |
| Y 88-0180 | G Aliphatic urethane | May 23, 1988. |
| Y 88-0185 | G Polyvinyl acetate poly(alkyleneoxy)acrylate copolymer | June 27, 1988. |
| Y 88-0188 | G Styrene/acrylic modified alkyd copolymer | June 17, 1988. |
| Y 88-0203 | G Water-reducible alkyd resin | June 28, 1988. |

V. 51 PREMANUFACTURE NOTICES
FOR WHICH THE PERIOD HAS BEEN
SUSPENDED

PMN No.

| | |
|-----------|-----------|
| P 88-0609 | P 88-1240 |
| P 88-0758 | P 88-1246 |
| P 88-0875 | P 88-1250 |
| P 88-1005 | P 88-1251 |
| P 88-1020 | P 88-1275 |
| P 88-1037 | P 88-1276 |
| P 88-1109 | P 88-1277 |
| P 88-1115 | P 88-1278 |
| P 88-1116 | P 88-1293 |
| P 88-1117 | P 88-1304 |
| P 88-1118 | P 88-1308 |
| P 88-1120 | P 88-1313 |
| P 88-1121 | P 88-1314 |
| P 88-1122 | P 88-1317 |
| P 88-1162 | P 88-1529 |
| P 88-1168 | P 88-1559 |
| P 88-1180 | P 88-1561 |
| P 88-1189 | P 88-1569 |
| P 88-1197 | P 88-1571 |
| P 88-1205 | P 88-1572 |
| P 88-1211 | P 88-1622 |
| P 88-1212 | P 88-1647 |
| P 88-1219 | P 88-1648 |
| P 88-1220 | P 88-1674 |
| P 88-1229 | P 88-1675 |
| P 88-1231 | |

[FR Doc. 88-21779 Filed 10-14-88; 8:45 am]

BILLING CODE 6560-50-M