

US EPA ARCHIVE DOCUMENT

RCRA REVISION CHECKLIST 140

Carbamate Production Identification and Listing of Hazardous Waste
 60 FR 7824-7859
 February 9, 1995
 as amended at 60 FR 19165, April 17, 1995
 and at 60 FR 25619, May 12, 1995
 (RCRA Cluster V, HSWA provisions)

Note: 1) On August 8, 1995, EPA published an interpretive rule in the Federal Register (see 60 FR 41817-41818) regarding a change in the Agency's interpretation of the February 9, 1995 rule that lists wastes from carbamate production as hazardous wastes under RCRA. Under this new interpretation, wastes from the production of non-carbamate intermediates that are used exclusively in the production of carbamates but are not produced at the ultimate site of manufacture of the carbamates will not be subject to the February 9, 1995 rule. These wastes are among those given in the RCRA waste code designations K156 and K157 in that rule.

- 2) On November 1, 1996, the U.S. Court of Appeals for the District of Columbia Circuit (*Dithiocarbamate Task Force v. EPA*, CA DC 95-1249, 11/1/96) vacated the following carbamate wastes listed by the February 9, 1995 (60 FR 7824) listing rule: U277, U365, U366, U375, U376, U377, U378, U379, U381, U382, U383, U384, U385, U386, U390, U391, U392, U393, U396, U400, U401, U402, U403, U407, and K160. In addition, the court vacated K156, K157 and K158 in so far as they encompass 3-iodo-2-propynyl n-butylcarbamate (IPBC), which was listed as product waste U375. These vacated wastes are not included on this checklist, because they are no longer required for authorization for this rule. States may choose to list these wastes as a matter of State law. In this case, the State-listed wastes will be broader in scope or more stringent than the Federal requirements, depending on whether or not the listed wastes also exhibit a 40 CFR 261, Subpart C hazardous waste characteristic.
- 3) States that incorporate the CFR by reference should be careful in their incorporation, particularly those States that have a statutory or regulatory restriction against being more stringent or broader in scope than the Federal requirements, because the U.S. Court of Appeals' vacatur may not be transferable to State law. See the special guidance for States that incorporate by reference on the Summary for this checklist.

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | |
|----------------------|-----------------------|--------------------------|------------------|------------------------|------------------------|---------------------|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE |

PART 261 - IDENTIFICATION AND LISTING OF HAZARDOUS WASTESUBPART A - GENERALDEFINITION OF HAZARDOUS WASTE

| | | | | | | |
|---|--------------------|--|--|--|--|--|
| † remove period at end of paragraph; add "; or" | 261.3(a)(2)(iv)(E) | | | | | |
|---|--------------------|--|--|--|--|--|

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | |
|--|-----------------------|--------------------------|------------------|-----------------|-----------------|------------------|
| | | | EQUIV-ALENT | LESS STRIN-GENT | MORE STRIN-GENT | BROADER IN SCOPE |
| †1 add new paragraph which excludes as hazardous waste certain wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157); specific provisions which must be met | | 261.3(a)(2)(iv)(F) | | | | |
| †1 add new paragraph which excludes as hazardous waste certain wastewaters derived from the treatment of one or more of the wastes listed in 261.32-- organic waste from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156); specific provisions which must be met | | 261.3(a)(2)(iv)(G) | | | | |

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | |
|--|-----------------------|--------------------------|------------------|------------------------|------------------------|---------------------|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE |
| †1 add new paragraph which excludes as hazardous waste biological treatment sludge from the treatment of one of the wastes listed in 261.32-- organic waste from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K156), and wastewaters from the production of carbamates and carbamoyl oximes (EPA Hazardous Waste No. K157) | 261.3(c)(2)(ii)(D) | | | | | |

SUBPART D--LISTS OF HAZARDOUS WASTES

HAZARDOUS WASTE FROM SPECIFIC SOURCES

| | | | | | | |
|---|--------|--|--|--|--|--|
| 1 add the following "K" wastes in alphanumeric order (by the first column) to the subgroup "Organic chemicals": | 261.32 | | | | | |
|---|--------|--|--|--|--|--|

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | |
|--|--|--------------------------|------------------|------------------------|------------------------|---------------------|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE |
| Industry and EPA hazardous waste No. | Hazardous waste | | | | | Hazard code |
| Organic Chemicals: | * | * | * | * | * | * |
| | * | * | * | * | * | * |
| K156 | Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decantates) from the production of carbamates and carbamoyl oximes. | | | | | (T) |
| K157 | Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. | | | | | (T) |
| K158 | Bag house dusts and filter/separation solids from the production of carbamates and carbamoyl oximes. | | | | | (T) |
| K159 | Organics from the treatment of thiocarbamate wastes. | | | | | (T) |
| K161 | Purification solids (including filtration, evaporation, and centrifugation solids), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. | | | | | (R,T) |
| | (This listing does not include K125 or K126.). | | | | | |

DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES, CONTAINER RESIDUES, AND SPILL RESIDUES THEREOF

| | | | | | | |
|--|-----------|--|--|--|--|--|
| 2, add the following "P" 3 wastes in alphabetic order (by the third column) | 261.33(e) | | | | | |
|--|-----------|--|--|--|--|--|

| Hazardous waste No. | Chemical abstracts No. | Substance | * | * | * | * | * | * | * |
|------------------------|------------------------------|---|---|---|---|---|---|---|---|
| P203 | 1646-88-4 | Aldicarb sulfone. | * | * | * | * | * | * | * |
| P127 | 1563-66-2 | 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate. | * | * | * | * | * | * | * |
| P188 | 57-64-7 | Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)-1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1). | * | * | * | * | * | * | * |

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | | |
|----------------------|-----------------------|---|------------------|------------------------|------------------------|---------------------|---|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE | |
| P189 | 55285-14-8 | Carbamic acid, [(dibutylamino)- thio]methyl-, 2,3-dihydro-2,2-dimethyl- 7-benzofuranyl ester. | * | * | * | * | * |
| P191 | 644-64-4 | Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]- 5-methyl-1H- pyrazol-3-yl ester. | | | | | |
| P192 | 119-38-0 | Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H- pyrazol-5-yl ester. | | | | | |
| P190 | 1129-41-5 | Carbamic acid, methyl-, 3-methylphenyl ester. | | | | | |
| P127 | 1563-66-2 | Carbofuran. | | | | | |
| | | | * | * | * | * | * |
| P189 | 5285-14-8 | Carbosulfan. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P202 | 64-00-6 | m-Cumanyl methylcarbamate. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P191 | 644-64-4 | Dimetilan. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P185 | 26419-73-8 | 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O- [(methylamino)- carbonyl]oxime. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P194 | 23135-22-0 | Ethanimidothioc acid, 2-(dimethylamino)-N-[(methylamino) carbonyl]oxy]-2-oxo-, methyl ester. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P198 | 23422-53-9 | Formetanate hydrochloride. | | | | | |
| P197 | 17702-57-7 | Formparanate. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P192 | 119-38-0 | Isolan. | | | | | |
| P202 | 64-00-6 | 3-Isopropylphenyl N-methylcarbamate. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P196 | 15339-36-3 | Manganese, bis(dimethylcarbamodithioato-S,S')-, | | | | | |
| P196 | 15339-36-3 | Manganese dimethyldithiocarbamate. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P198 | 23422-53-9 | Methanimidamide, N,N-dimethyl-N'-[3-[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride. | | | | | |
| P197 | 17702-57-7 | Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino)carbonyl]oxy]phenyl]- | | | | | |
| P199 | 2032-65-7 | Methiocarb. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P190 | 1129-41-5 | Metolcarb. | * | * | * | * | * |
| | | | * | * | * | * | * |
| P128 | 315-18-4 | Mexacarbate. | * | * | * | * | * |
| | | | * | * | * | * | * |

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | | |
|----------------------|-----------------------|---|------------------|------------------------|------------------------|---------------------|---|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE | |
| P194 | 23135-22-0 | Oxamyl. | * | * | * | * | * |
| P128 | 315-18-4 | Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester). | * | * | * | * | * |
| P199 | 2032-65-7 | Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate | * | * | * | * | * |
| P202 | 64-00-6 | Phenol, 3-(1-methylethyl)-, methyl carbamate. | * | * | * | * | * |
| P201 | 2631-37-0 | Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate. | * | * | * | * | * |
| P204 | 57-47-6 | Physostigmine. | * | * | * | * | * |
| P188 | 57-64-7 | Physostigmine salicylate. | * | * | * | * | * |
| P201 | 2631-37-0 | Promecarb | * | * | * | * | * |
| P203 | 1646-88-4 | Propanal, 2-methyl-2-(methyl-sulfonyl)-, O-[(methylamino)carbonyl] oxime. | * | * | * | * | * |
| P204 | 57-47-6 | Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-. | * | * | * | * | * |
| P185 | 26419-73-8 | Tirpate. | * | * | * | * | * |
| P205 | 137-30-4 | Zinc, bis(dimethylcarbamodithioato-S,S')-, | * | * | * | * | * |
| P205 | 137-30-4 | Ziram. | | | | | |

2 add the following "U" wastes in alphabetic order (by the third column)

261.33(f)

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | | |
|--|-----------------------|---|------------------|------------------------|------------------------|---------------------|---|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE | |
| Hazardous waste No. Chemical abstracts No. Substance | | | | | | | |
| U394 | 30558-43-1 | A2213. | * | * | * | * | * |
| U280 | 101-27-9 | Barban. | | | | | |
| U278 | 22781-23-3 | Bendiocarb. | | | | | |
| U364 | 22961-82-6 | Bendiocarb phenol. | | | | | |
| U271 | 17804-35-2 | Benomyl. | | | | | |
| U278 | 22781-23-3 | 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate. | * | * | * | * | * |
| U364 | 22961-82-6 | 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, | | | | | |
| U367 | 1563-38-8 | 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl- | | | | | |
| U372 | 10605-21-7 | Carbamic acid, 1H-benzimidazol-2-yl, methyl ester. | | | | | |
| U271 | 17804-35-2 | Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester | | | | | |
| U280 | 101-27-9 | Carbamic acid, (3-chlorophenyl)-, 4-chloro-2-butynyl ester. | | | | | |
| U373 | 122-42-9 | Carbamic acid, phenyl-, 1-methylethyl ester. | | | | | |
| U409 | 23564-05-8 | Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl ester. | | | | | |
| U389 | 2303-17-5 | Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester. | * | * | * | * | * |
| U387 | 52888-80-9 | Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester. | | | | | |
| U279 | 63-25-2 | Carbaryl. | | | | | |
| U372 | 10605-21-7 | Carbendazim. | | | | | |
| U367 | 1563-38-8 | Carbofuran phenol. | | | | | |
| U395 | 5952-26-1 | Diethylene glycol, dicarbamate. | * | * | * | * | * |
| U404 | 121-44-8 | Ethanamine, N,N-diethyl- | * | * | * | * | * |
| U410 | 59669-26-0 | Ethanimidothioic acid, N,N'-[thiobis[(methylimino)carbonyloxy]]bis-, dimethyl ester | * | * | * | * | * |
| U394 | 30558-43-1 | Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo-, methyl ester. | * | * | * | * | * |

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | | |
|----------------------|-----------------------|---|------------------|------------------------|------------------------|---------------------|---|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE | |
| U395 | 5952-26-1 | Ethanol, 2,2'-oxybis-, dicarbamate. | * | * | * | * | * |
| U279 | 63-25-2 | 1-Naphthalenol, methylcarbamate. | * | * | * | * | * |
| U411 | 114-26-1 | Phenol, 2-(1-methylethoxy)-, methylcarbamate. | * | * | * | * | * |
| U373 U411 | 122-42-9 114-26-1 | Propham. Propoxur. | * | * | * | * | * |
| U410 | 59669-26-0 | Thiodicarb. | * | * | * | * | * |
| U409 | 23564-05-8 | Thiophanate-methyl. | * | * | * | * | * |
| U389 | 2303-17-5 | Triallate. | * | * | * | * | * |
| U404 | 121-44-8 | Triethylamine. | * | * | * | * | * |

APPENDIX VII TO PART 261

BASIS FOR LISTING HAZARDOUS WASTE

| | | | | | | | |
|---|-------------------|--|--|--|--|--|--|
| 1 add in alphanumeric order (by first column) | 261, Appendix VII | | | | | | |
|---|-------------------|--|--|--|--|--|--|

EPA hazardous waste No.

Hazardous constituents for which listed

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | |
|----------------------|---|--------------------------|------------------|------------------------|------------------------|---------------------|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE |
| K156 | Benomyl, carbaryl, carbendazim, carbofuran, carbosulfan, formaldehyde, methylene chloride, triethylamine. | | | | | |
| K157 | Carbon tetrachloride, formaldehyde, methyl chloride, methylene chloride, pyridine, triethylamine. | | | | | |
| K158 | Benomyl, carbendazim, carbofuran, carbosulfan, chloroform, methylene chloride. | | | | | |
| K159 | Benzene, butylate, eptc, molinate, pebulate, vernolate. | | | | | |
| K161 | Antimony, arsenic, metam-sodium, ziram. | | | | | |

APPENDIX VIII TO PART 261

HAZARDOUS CONSTITUENTS

| | | | | | | |
|------------------------------|--------------------|--|--|--|--|--|
| 2 add in alphabetical order: | 261, Appendix VIII | | | | | |
|------------------------------|--------------------|--|--|--|--|--|

| Common Name | Chemical abstracts name | abstracts No. | Chemical waste No. | Hazardous waste No. |
|-------------------|--|---------------|--------------------|---------------------|
| | * | * | * | * |
| A2213 | Ethanimidothioic acid, 2- (dimethylamino) -N-hydroxy-2-oxo-, methyl ester | | 30558-43-1 | U394 |
| | * | * | * | * |
| Aldicarb sulfone | Propanal, 2-methyl-2- (methylsulfonyl) -, O-[(methylamino) carbonyl] oxime | | 1646-88-4 | P203 |
| | * | * | * | * |
| Barban | Carbamic acid, (3-chlorophenyl) -, 4-chloro-2-butynyl ester | | 101-27-9 | U280 |
| | * | * | * | * |
| Bendiocarb | 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate | | 22781-23-3 | U278 |
| Bendiocarb phenol | 1,3-Benzodioxol-4-ol, 2,2-dimethyl-, | | 22961-82-6 | U364 |
| Benomyl | Carbamic acid, [1- [(butylamino) carbonyl]-1H-benzimidazol-2-yl] -, methyl ester | | 17804-35-2 | U271 |
| | * | * | * | * |

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | |
|--------------------------------|---|--------------------------|------------------|------------------------|------------------------|---------------------|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE |
| Carbaryl | 1-Naphthalenol, methylcarbamate | | | 63-25-2 | U279 | |
| Carbendazim | Carbamic acid, 1H-benzimidazol-2-yl, methyl ester | | | 10605-21-7 | U372 | |
| Carbofuran | 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate | | | 1563-66-2 | P127 | |
| Carbofuran phenol | 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl- | | | 1563-38-8 | U367 | |
| | * | * | * | * | * | * |
| Carbosulfan | Carbamic acid, [(dibutylamino) thio] methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester | | | 55285-14-8 | P189 | |
| | * | * | * | * | * | * |
| m-Cumenyl methylcarbamate | Phenol, 3-(methylethyl)-, methyl carbamate | | | 64-00-6 | P202 | |
| | * | * | * | * | * | * |
| Diethylene glycol, dicarbamate | Ethanol, 2,2'-oxybis-, dicarbamate | | | 5952-26-1 | U395 | |
| | * | * | * | * | * | * |
| Dimetilan | Carbamic acid, dimethyl-, 1- [(dimethylamino) carbonyl]-5-methyl-1H-pyrazol-3-yl ester | | | 644-64-4 | P191 | |
| | * | * | * | * | * | * |
| Formetanate hydrochloride | Methanimidamide, N,N-dimethyl-N'-[3-[(methylamino) carbonyloxy]phenyl]-, monohydrochloride | | | 23422-53-9 | P198 | |
| | * | * | * | * | * | * |
| Formparanate | Methanimidamide, N,N-dimethyl-N'-[2-methyl-4-[(methylamino) carbonyloxy]phenyl]-. | | | 17702-57-7 | P197 | |
| | * | * | * | * | * | * |
| Isolan | Carbamic acid, dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester | | | 119-38-0 | P192 | |
| | * | * | * | * | * | * |

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | |
|-----------------------------------|--|--------------------------|------------------|------------------------|------------------------|---------------------|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE |
| Manganese dimethyldithiocarbamate | Manganese, bis(dimethylcarbamodithioato-S,S')-, | | | | 15339-36-3 | P196 |
| | * | * | * | * | * | * |
| Methiocarb | Phenol, (3,5-dimethyl-4-(methylthio)-, methylcarbamate | | | | 2032-65-7 | P199 |
| | * | * | * | * | * | * |
| Metolcarb | Carbamic acid, methyl-, 3-methylphenyl ester | | | | 1129-41-5 | P190 |
| | * | * | * | * | * | * |
| Mexacarbamate | Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester) | | | | 315-18-4 | P128 |
| | * | * | * | * | * | * |
| Oxamyl | Ethanimidothioc acid, 2-(dimethylamino)-N-[[(methylamino) carbonyloxy]-2-oxo-, methyl ester | | | | 23135-22-0 | P194 |
| | * | * | * | * | * | * |
| Physostigmine | Pyrrolo[2,3-b]indol-5-01, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)- | | | | 57-47-6 | P204 |
| Physostigmine salicylate | Benzoic acid, 2-hydroxy-, compd. with (3aS-cis)--1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethylpyrrolo[2,3-b]indol-5-yl methylcarbamate ester (1:1). | | | | 57-64-7 | P188 |
| | * | * | * | * | * | * |
| Promecarb | Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate | | | | 2631-37-0 | P201 |
| | * | * | * | * | * | * |
| Propham Propoxur | Carbamic acid, phenyl-, 1-methylethyl ester Phenol, 2-(1-methylethoxy)-, methylcarbamate | | | | 122-42-9 114-26-1 | U373 U411 |
| | * | * | * | * | * | * |
| Prosulfocarb | Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester | | | | 52888-80-9 | U387 |
| | * | * | * | * | * | * |
| Thiodicarb | Ethanimidothioc acid, N,N'-(thiobis [(methylimino) carbonyloxy]) bis-, dimethyl ester. | | | | 59669-26-0 | U410 |
| Thiophanate-methyl | Carbamic acid, [1,2-phenylenebis (iminocarbonothioyl)] bis-, dimethyl ester | | | | 23564-05-8 | U409 |
| | * | * | * | * | * | * |

**RCRA REVISION CHECKLIST 140: Carbamate Production Identification and
Listing of Hazardous Waste (cont'd)**

| FEDERAL REQUIREMENTS | FEDERAL RCRA CITATION | ANALOGOUS STATE CITATION | STATE ANALOG IS: | | | |
|----------------------|---|--------------------------|------------------|------------------------|------------------------|---------------------|
| | | | EQUIV- ALENT | LESS STRIN- GENT | MORE STRIN- GENT | BROADER IN SCOPE |
| Tirplate | 1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-, O-[(methylamino) carbonyl] oxime. | | | | 26419-73-8 | P185 |
| Triallate | Carbamothioic acid, bis(1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester | | | | 2303-17-5 | U389 |
| | * | * | * | * | * | * |
| Triethylamine | Ethanamine, N,N-diethyl- | | | | 121-44-8 | U404 |
| | * | * | * | * | * | * |
| Ziram | ZInc, bis(dimethylcarbamodithioato-S,S')-, (T-4)- | | | | 137-30-4 | P205 |
| | * | * | * | * | * | * |

¹ K156, K157, and K158 were vacated by the U.S. Court of Appeals (*Dithiocarbamate Task Force v. EPA*, CA DC 95-1249, 11/1/96) to the extent that they encompass 3-iodo-2-propynyl n-butylicarbamate (IPBC), which was listed as product waste U375.

² Amended by 60 FR 19165 (April 17, 1995) and 60 FR 25619 (May 12, 1995).

³ The May 12, 1995 Federal Register article corrected the CAS No. for "Mexacarbate." However, on page 25620 of this article, "Mexacarbamate" should be "Mexacarbate".