



## **TOXICS RELEASE INVENTORY**

List of Toxic Chemicals within Ethylenebisdithiocarbamic Acid, Salts and Esters Category and List of Mixtures that Contain the Individually listed Chemicals Maneb, Metiram, Nabam, and Zineb

Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) requires certain facilities manufacturing, processing, or otherwise using listed toxic chemicals to report their environmental releases of such chemicals annually. Beginning with the 1991 reporting year, such facilities also must report pollution prevention and recycling data for such chemicals, pursuant to section 6607 of the Pollution Prevention Act, 42 U.S.C. 13106. When enacted, section 313 established an initial list of toxic chemicals that was comprised of more than 300 chemicals and 20 chemical categories. Section 313(d) authorizes EPA to add chemicals to or delete chemicals from the list, and sets forth criteria for these actions. EPCRA section 313 is also known as the Toxics Release Inventory (TRI).

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## Section 1. Introduction

On November 30, 1993, EPA added 21 chemicals and 2 categories to the list of toxic chemicals under section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (58 FR 63500). These additions are described at 40 CFR 372.65, and were effective January 1, 1994 for reports due July 1995. Ethylenebisdithiocarbamic acid (EBDC), salts and esters was included in these additions. At the time of the addition, EPA indicated that the Agency would work with the public and the regulated community to develop, as appropriate, interpretations and guidance the Agency determines are necessary to facilitate accurate reporting for these categories. This document constitutes such guidance for EBDC, salts and esters.

EPCRA section 313 requires threshold determinations for chemical categories to be based on the total of all chemicals in the category manufactured, processed, or otherwise used. For example, a facility that manufactures three members of a chemical category would count the total amount of all three chemicals manufactured towards the manufacturing threshold for that category. When filing reports for chemical categories, the releases are determined in the same manner as the thresholds. One report is filed for the category and all releases are reported on this form.

The EBDC salts and esters category is subject to the one percent *de minimis* concentration. Thus, mixtures that contain members of these categories in excess of the *de minimis* should be factored into threshold and release determinations.

Any compound which has a EBDC salt or ester component is reportable. EPA is providing in this document a list of CAS numbers and chemical names to aid the regulated community in determining whether they need to report for the EBDC category. *However, this list is not exhaustive.* If a facility is manufacturing, processing, or using a chemical which has a EBDC salt or ester component, they must report to TRI, even if this chemical does not appear on the list in this document.

In addition to the EBDC category, there are four individually listed EBDC chemicals, these are: maneb (Chemical Abstracts Service Number (CAS#) 12427-38-2), metiram (CAS# 9006-42-2), nabam (CAS# 142-59-6), and zineb (CAS# 12122-67-7). Maneb and zineb were on the original EPCRA section 313 list established by Congress while metiram and nabam were added to the list by EPA (November 30, 1994, 59 FR 61432). This document contains a list of mixtures that contain these individually listed EBDC chemicals that should be considered in any threshold and release determinations for these chemicals. Maneb, metiram, nabam, and zineb are subject to the one percent *de minimis* concentration. Thus, mixtures that contain these chemicals in excess of the *de minimis* should be factored into threshold and release determinations. These individually listed chemicals and the mixtures that contain them are not part of the EBDC category.

## Who Must Report

A facility is subject to the provisions of Section 313, if it meets all three of the following criteria:

1. It is included in the following North American Industrial Classification System (NAICS) manufacturing codes (corresponding to Standard Industrial Classification (SIC) codes 20 through 39): 311\*, 312\*, 313\*, 314\*, 315\*, 316, 321, 322, 323\*, 324, 325\*, 326\*, 327, 331, 332, 333, 334\*, 335\*, 336, 337\*, 339\*, 111998\*, 113310, 211130\*, 212324\*, 212325\*, 212393\*, 212399\*, 488390\*, 511110, 511120, 511130, 511140\*, 511191, 511199, 512230\*, 512250\*, 519130\*, 541713\*, 541715\* or 811490\*. \*Exceptions and/or limitations exist for these NAICS codes.

Facilities included in the following NAICS codes (corresponding to SIC codes other than SIC codes 20 through 39): 212111, 212112, 212113 (corresponds to SIC code 12, Coal Mining (except 1241)); or 212221, 212222, 212230, 212299 (corresponds to SIC code 10, Metal Mining (except 1011, 1081, and 1094)); or 221111, 221112, 221113, 221118, 221121, 221122, 221330 (limited to facilities that combust coal and/or oil for the purpose of generating power for distribution in commerce) (corresponds to SIC codes 4911, 4931, and 4939, Electric Utilities); or 424690, 425110, 425120 (limited to facilities previously classified in SIC code 5169, Chemicals and Allied Products, Not Elsewhere Classified); or 424710 (corresponds to SIC code 5171, Petroleum Bulk Terminals and Plants); or 562112 (limited to facilities primarily engaged in solvent recovery services on a contract or fee basis (previously classified under SIC code 7389, Business Services, NEC)); or 562211, 562212, 562213, 562219, 562920 (limited to facilities regulated under the Resource Conservation and Recovery Act, subtitle C, 42 U.S.C. 6921 et seq.) (corresponds to SIC code 4953, Refuse Systems); and

2. It has 10 or more full-time employees (or the equivalent 20,000 hours per year); and
3. It manufactures, imports, processes, or otherwise uses any of the toxic chemicals listed on the EPCRA Section 313 list in amounts greater than the "threshold" quantities specified below.

## Thresholds

Thresholds are specified amounts of toxic chemicals *manufactured, processed, or otherwise used* during the calendar year that trigger reporting requirements.

If you *manufacture* or *import* any of the listed toxic chemicals, the threshold quantity will be:

- 25,000 pounds per toxic chemical or category during the calendar year.

If you *process* any of the listed toxic chemicals, the threshold quantity will be:

- 25,000 pounds per toxic chemical or category during the calendar year.

If you *otherwise use* any of the listed toxic chemicals (without incorporating it into any product or producing it at the facility), the threshold quantity is:

- 10,000 pounds per toxic chemical or category during the calendar year.

## Section 2. CAS Number List of Chemicals and Mixtures that Contain the Ethylenebis(dithiocarbamic Acid, Salts and Esters

EPA is providing the following list of CAS numbers and chemical names to aid the regulated community in determining whether they need to report for the EBDC category. *However, this list is not exhaustive.* If a facility is manufacturing, processing, or using a chemical which has a EBDC salt or ester component, they must report to TRI, even if this chemical does not appear on the following list.

Table 1. Listing by CAS Number of Chemicals in or mixtures that contain the Ethylenebis(dithiocarbamic Acid, Salts and Esters.		
Collective Index Name	Common Name	CAS Number
Ethylenebis(dithiocarbamic acid (EBDC)	N/A	111-54-6
Carbamic acid, ethylenebis[dithio-, ammonium sodium salt)	N/A	1428-76-8
Carbamodithioic acid, 1,2-ethanediybis-, diammonium salt	N/A	3566-10-7
Carbamodithioic acid, 1,2-ethanediybis-, calcium salt (1:1)	N/A	5895-18-1
Ethylenebis(dithiocarbamic acid) manganese zinc complex	Mancozeb	8018-01-7
Carbamodithioic acid, 1,2-ethanediybis-, dipotassium salt	N/A	10039-34-6
Carbamodithioic acid, 1,2-ethanediybis-, monosodium salt	N/A	13036-89-0
Carbamodithioic acid, 1,2-ethanediybis-, ammonium salt	N/A	17188-79-3
Carbamodithioic acid, 1,2-ethanediybis-, sodium salt	N/A	22124-95-4
Carbamic acid, ethylenebis[dithio-, ammonium potassium salt	N/A	22221-14-3
Imidocarbamic acid, ethylenebis[dithio-, tetrasodium salt	N/A	28216-83-3*
Ethanol, 2,2',2''-nitrotris-, 1,2-ethanediybis[carbamodithioate] (2:1) (salt)	Amobam T	33233-06-6*
Carbamimidithioic acid, methyl ester, 1,2-ethanediybis[carbamodithioate] (2:1)	N/A	40884-52-4*
Carbamodithioic acid, ethyl ester, 1,2-ethanediybis[carbamodithioate] (2:1)	N/A	62938-40-3*
Carbamodithioic acid, 1,2-ethanediybis-, potassium salt	N/A	85051-95-2*
Carbamodithioic acid, 1,2-ethanediybis-, barium salt (1:1)	N/A	90091-45-5*
Carbamodithioic acid, 1,2-ethanediybis-, mixt. with dimethylcarbamodithioic acid	N/A	120834-78

N/A - Not applicable

\* - Indicates the mixtures under this category

### Section 3. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb

EPA is providing the following list of CAS numbers and chemical names for mixtures which contain the individually listed chemicals mane b, metiram, nabam, and zineb. This list will aid the regulated community in determining whether they need to report for these chemicals. *However, this list is not exhaustive.* If a facility is manufacturing, processing, or using a mixture that contains any of these chemicals, they must report to TRI, even if the mixture does not appear on the following list. Threshold calculations for the each of these listed chemicals should account only for the percentage of the chemical contained in the mixture.

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Zinc, bis(dimethylcarbomodithioato-S,S')-, (T-4)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	8004-24-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with nickel(2+) sulfate (1:1)	Maneb 12427-38-2	8005-46-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	8018-01-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	8018-01-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with nickel(2+) sulfate (1:1)	Zineb 12122-67-7	8030-50-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2(or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl 2-butenate	Maneb 12427-38-2	8064-42-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2(or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl 2-butenate	Zineb 12122-67-7	8064-42-4
Copper, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	8065-68-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate	Zineb 12122-67-7	8066-21-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with poly(dithiocarbonothioylimino-1,2-ethanediyiminocarbonothioyl)	Zineb 12122-67-7	8066-22-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2,3-dichloro-1,4-naphthalenedione and sulfur	Zineb 12122-67-7	8066-45-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and (OC-6-11)-tris(dimethylcarbomodithioato-S,S')iron	Maneb 12427-38-2	8067-88-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and (OC-6-11)-tris(dimethylcarbomodithioato-S,S')iron	Zineb 12122-67-7	8067-88-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with chlorotriphenylstannane	Maneb 12427-38-2	8068-19-7

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with hydroxytriphenylstannane	Maneb 12427-38-2	8068-21-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (acetyloxy)triphenylstannane	Maneb 12427-38-2	8068-24-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper(1+) hypochlorite	Zineb 12122-67-7	8069-53-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper and sulfur	Zineb 12122-67-7	8070-00-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Maneb 12427-38-2	8070-06-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	8070-06-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (2,4-dichlorophenoxy)acetic acid	Zineb 12122-67-7	8071-31-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 6-chloro-N-cyclopropyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine	Maneb 12427-38-2	8071-38-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (1α,2β,2α,3β,6β,6α,7β,7α)-3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-2,7:3,6-dimethanonaphth[2,3-b]oxirene	Zineb 12122-67-7	8071-76-9
4,4'-Bipyridinium, 1,1'-dimethyl-, dichloride, mixt. with N'-(3,4-dichlorophenyl)-N,N-dimethylurea, disodium methylarsonate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	8071-88-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate]	Zineb 12122-67-7	8071-89-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	8072-26-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	8072-27-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	8072-27-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate]	Zineb 12122-67-7	8072-32-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	8072-33-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	8072-33-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with ammonium nitrate, 4-chlorophenyl 4-chlorobenzenesulfonate and O,O-diethyl O-(4-nitrophenyl) phosphorothioate	Zineb 12122-67-7	8073-83-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chlorophenyl 4-chlorobenzenesulfonate and O,O-diethyl O-(4-nitrophenyl) phosphorothioate	Zineb 12122-67-7	8073-85-6

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
D-Streptomine, O-2-deoxy-2-(methylamino)- $\alpha$ -L- glucopyranosyl-(1 $\rightarrow$ 2)-O-5-deoxy-3-C-formyl- $\alpha$ -L-lyxofuranosyl-(1 $\rightarrow$ 4)-N,N'-bis(aminoiminomethyl)-, sulfate (2:3) (salt), mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese and methyl N-[[methylamino]carbonyl]oxy]ethanimidothioate	Maneb 12427-38-2	8075-14-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and nickel(2+) sulfate (1:1)	Maneb 12427-38-2	8076-26-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and nickel(2+) sulfate (1:1)	Zineb 12122-67-7	8076-26-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with poly(thiocarbonothioylimino-1,2-ethanediyiminocarbonothioyl) (3:1)	Zineb 12122-67-7	9019-28-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and magnesium sulfate	Maneb 12427-38-2	37287-29-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and magnesium sulfate	Zineb 12122-67-7	37287-29-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 1,4-dichloro-2,5-dimethoxybenzene	Maneb 12427-38-2	37301-43-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with sulfur and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Maneb 12427-38-2	39277-98-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with pentachloronitrobenzene and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Maneb 12427-38-2	39277-99-1
Chloric acid, copper(1+) salt, mixt. with metiram	Metiram 9006-42-2	39283-98-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2,6-dichloro-4-nitrobenzenamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	39298-00-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2,6-dichloro-4-nitrobenzenamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	39298-00-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with sulfur	Zineb 12122-67-7	39312-75-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with methyl [1-(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	39341-94-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper hydroxide (Cu(OH) <sub>2</sub> ) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	39342-58-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper hydroxide (Cu(OH) <sub>2</sub> ) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	39342-58-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Maneb 12427-38-2	39374-31-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Zineb 12122-67-7	39374-31-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, sulfur and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	39374-36-2



Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc, sulfur and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	39374-36-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with sulfur and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	39374-37-3
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 3-butyl-6-(ethylamino)-2-methyl-4-pyridinol and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	39374-43-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 3-butyl-6-(ethylamino)-2-methyl-4-pyridinol and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	39374-43-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with $\alpha$ -(2,4-dichlorophenyl)- $\alpha$ -phenyl-5-pyrimidinemethanol and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	39374-48-6
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with $\alpha$ -(2,4-dichlorophenyl)- $\alpha$ -phenyl-5-pyrimidinemethanol and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	39374-48-6
Carbamic acid, 1H-benzimidazol-2-yl-, methyl ester, mixt. with metiram	Metiram 9006-42-2	39394-36-0
Carbamic acid, [1-(butylamino)carbonyl]-1H-benzimidazol-2-yl-, methyl ester, mixt. with metiram	Metiram 9006-42-2	39394-37-1
Zinc, bis(methylcarbomodithiato-S,S')-, (T-4)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	39400-76-5
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and hydroxytriphenylstannane	Maneb 12427-38-2	39400-84-5
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and hydroxytriphenylstannane	Zineb 12122-67-7	39400-84-5
Copper, bis(8-quinolinolato-N1,O8)-, mixt. with 9,10-anthracenedione, 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide, [[1,2-ethanediybis[carbomodithiato]](2-)]manganese and (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-hexachlorocyclohexane	Maneb 12427-38-2	39409-03-5
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 2(or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl-	Maneb 12427-38-2	39472-21-4
Zinc, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with (1 $\alpha$ ,4 $\alpha$ ,4 $\alpha$ , 5 $\alpha$ ,8 $\alpha$ ,8 $\alpha\beta$ )-1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-dimethanonaphthalene	Zineb 12122-67-7	50934-44-6
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide and (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-hexachlorocyclohexane	Maneb 12427-38-2	51202-56-3
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 1,2-ethanediamine and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	51274-90-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 1,2-ethanediamine and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	51274-90-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	51274-91-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	51274-91-0

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Copper, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51274-93-2
Iron, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51274-94-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	51274-95-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51274-95-4
Nickel, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51274-96-5
Iron, tris[[1,2-ethanediybis[carbomodithioato]](2-)]di-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51274-97-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] phosphorothioate	Zineb 12122-67-7	51358-42-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-[6-methyl-2-(1-methylethyl)-4-pyrimidinyl] phosphorothioate	Zineb 12122-67-7	51358-42-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-(1-methylethoxy)phenyl methylcarbamate	Zineb 12122-67-7	51358-43-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-(4-nitrophenyl) phosphorothioate	Zineb 12122-67-7	51358-44-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [(dimethoxyphosphinothioyl)thio]butanedioate	Zineb 12122-67-7	51358-45-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with S-[2-(ethylamino)-2-oxoethyl] O,O-dimethyl phosphorodithioate	Zineb 12122-67-7	51358-47-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper hydroxide sulfate (Cu <sub>4</sub> (OH) <sub>6</sub> (SO <sub>4</sub> ) monohydrate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	51367-08-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper hydroxide sulfate (Cu <sub>4</sub> (OH) <sub>6</sub> (SO <sub>4</sub> ) monohydrate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51367-08-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, dihydrate, mixt. with 1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51367-09-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, dihydrate, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51367-11-4
Iron(1+), [[1,2-ethanediybis[carbomodithioato]](2-)-, chloride, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine, [[1,2-ethanediybis[carbomodithioato]](2-)]manganese dihydrate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	51382-99-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide	Maneb 12427-38-2	51484-80-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and Polyoxin AL	Maneb 12427-38-2	51745-89-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and Polyoxin AL	Zineb 12122-67-7	51745-89-2

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Nonactin, 5-demethyl-5-ethyl-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese	Maneb 12427-38-2	51901-10-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with methyl 1H-benzimidazol-2-ylcarbamate	Maneb 12427-38-2	52080-81-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with methyl 1H-benzimidazol-2-ylcarbamate	Zineb 12122-67-7	52080-82-7
Zinc, bis(2-hydroxy-N-phenylbenzamido-O,O')-, (T-4)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	52109-05-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2,5-dimethyl-N-phenyl-3-furancarboxamide	Maneb 12427-38-2	52233-08-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2,5-dimethyl-N-phenyl-3-furancarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	52233-09-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2,5-dimethyl-N-phenyl-3-furancarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	52233-09-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate and Tenac	Zineb 12122-67-7	52357-55-8
Copper chloride oxide, hydrate, mixt. with metiram	Metiram 9006-42-2	52623-98-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (T-4)-bis(dimethylcarbomodithioato-S,S')zinc	Maneb 12427-38-2	52623-85-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate]	Maneb 12427-38-2	52623-88-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate	Maneb 12427-38-2	52769-87-6
Phosphonium, decyltriphenyl-, (TB-5-12)-bromochlorotriphenylstannate(1-), mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese	Maneb 12427-38-2	52769-89-8
Metiram, mixt. with copper chloride (CuCl <sub>2</sub> )	Metiram 9006-42-2	52932-50-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	53568-86-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	53568-86-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]copper	Maneb 12427-38-2	53988-93-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with sodium hydroxide (Na(OH)) and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	54017-74-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with disodium carbonate and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	54033-88-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-hexachlorocyclohexane and 1-(8-hydroxy-5-quinolinyl)ethanone sulfate (2:1) (salt)	Maneb 12427-38-2	54175-27-8

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(8-hydroxy-5-quinoliny)ethanone sulfate (2:1) (salt)	Maneb 12427-38-2	54175-28-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide (Cu <sub>2</sub> Cl <sub>2</sub> O <sub>3</sub> ) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	54651-86-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide (Cu <sub>2</sub> Cl <sub>2</sub> O <sub>3</sub> ) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	54651-86-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,6-dimethyl-4-tridecylmorpholine	Maneb 12427-38-2	54842-07-8
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,6-dimethyl-4-tridecylmorpholine and [[1,2-ethanediybis[carbomodithioato]](2-)]manganese	Maneb 12427-38-2	54842-08-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,6-dimethyl-4-tridecylmorpholine and [[1,2-ethanediybis[carbomodithioato]](2-)]manganese	Zineb 12122-67-7	54842-08-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,6-dimethyl-4-tridecylmorpholine	Zineb 12122-67-7	54842-09-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,6-dimethyl-4-tridecylmorpholine, ammoniate	Zineb 12122-67-7	55015-08-2
1,3-Benzenedicarboxylic acid, 5-nitro-, bis(1-methylethyl) ester, mixt. with metiram and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Metiram 9006-42-2	55257-73-3
1,3-Benzenedicarboxylic acid, 5-nitro-, bis(1-methylethyl) ester, mixt. with metiram	Metiram 9006-42-2	55257-78-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with bis(1-methylethyl) 5-nitro-1,3-benzenedicarboxylate	Maneb 12427-38-2	55257-45-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with bis(1-methylethyl) 5-nitro-1,3-benzenedicarboxylate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	55257-46-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with bis(1-methylethyl) 5-nitro-1,3-benzenedicarboxylate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	55257-46-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with bis(1-methylethyl) 5-nitro-1,3-benzenedicarboxylate	Zineb 12122-67-7	55257-47-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-(3,5-dichlorophenyl)-3a,4,5,6,7,7a-hexahydro-4,7-epoxy-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	55257-83-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-(3,5-dichlorophenyl)-3a,4,5,6,7,7a-hexahydro-4,7-epoxy-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	55257-84-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	55347-98-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	55347-98-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [4-(1,1-dimethylethyl)phenyl]methyl 1-methylpropyl 3-pyridinylcarbonimidodithioate	Zineb 12122-67-7	55613-73-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	55948-03-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	55948-03-3

<b>Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb</b>		
<b>Mixture Name</b>	<b>Component</b>	<b>Mixture CAS Number</b>
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3,6,9,12-tetraazatetradecane-1,14-diamine	Zineb 12122-67-7	55966-88-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine	Zineb 12122-67-7	55966-89-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(2-aminoethyl)-N'-[2-(2-aminoethyl)amino]ethyl-1,2-ethanediamine	Zineb 12122-67-7	55966-90-0
Cobalt, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	56060-88-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tris[[1,2-ethanediybis[carbomodithioato]](2-)]diiron	Maneb 12427-38-2	56060-89-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-bis(2-aminoethyl)-1,2-ethanediamine, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tris[[1,2-ethanediybis[carbomodithioato]](2-)]diiron	Zineb 12122-67-7	56060-89-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-(1-oxododecyl)-1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	56335-06-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-(1-oxododecyl)-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	56335-06-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl [1-(1-oxoheptyl)-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	56335-08-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl [1-(1-oxoheptyl)-1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	56335-09-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] phosphorodithioate and (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6- hexachlorocyclohexane	Zineb 12122-67-7	56335-26-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl (1-formyl-1H-benzimidazol-2-yl)carbamate	Zineb 12122-67-7	56362-08-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sulfur and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S)) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	56560-72-6
Metiram, mixt. with sulfur	Metiram 9006-42-2	57693-13-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with nickel chloride (NiCl <sub>2</sub> )	Zineb 12122-67-7	57925-44-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	58051-25-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	58051-25-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, Haftol and Thiosol	Zineb 12122-67-7	58411-08-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (T-4)-bis(dimethylcarbomodithioato-S,S')zinc and sulfur	Maneb 12427-38-2	58653-44-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2(or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl 2-butenate	Zineb 12122-67-7	58747-90-3

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sulfur, [2R-(2 $\alpha$ ,6 $\alpha$ , 12 $\alpha$ )-1,2,12,12a-tetrahydro-8,9-dimethoxy-2-(1-methylethenyl)[1]benzopyrano[3,4- b]furo[2,3-h][1]benzopyran-6(6aH)-one and 1,1'-(2,2,2-trichloroethylidene)bis[4-chlorobenzene]	Zineb 12122-67-7	58846-99-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-hexachlorocyclohexane	Zineb 12122-67-7	58934-22-8
263Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with cis-3a,4,7,7a-tetrahydro-2-[(1,1,2,2-tetrachloroethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	59271-33-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [R-(R*,R*)]-2,2-dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide	Zineb 12122-67-7	59620-92-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [R-(R*,R*)]-2,2-dichloro-N-[2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl]acetamide	Maneb 12427-38-2	59644-60-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with guazatine acetate	Maneb 12427-38-2	60194-14-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	60240-47-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	60240-47-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with magnesium bis[[N,N-bis(2-hydroxy-5- sulfophenyl)methyl]glycinato(3-)]cuprate(1-)]	Maneb 12427-38-2	60351-11-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with magnesium bis[[N,N-bis(2-hydroxy-5- sulfophenyl)methyl]glycinato(3-)]cuprate(1-)]	Zineb 12122-67-7	60351-12-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl (2,2,2-trichloro-1-hydroxyethyl)phosphonate	Zineb 12122-67-7	60540-99-0
Dipyrido[1,2-a:2',1'-c]pyrazinedium, 6,7-dihydro-, mixt. with disodium 1,2-ethanediybis[carbomodithioate]	Nabam 142-59-6	60558-39-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	60704-04-3
Butanedioic acid, [(dimethoxyphosphinothioyl)thio]-, diethylester, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese	Maneb 12427-38-2	60905-85-3
Metiram, mixt. with tridemorph	Metiram 9006-42-2	60996-03-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with ethyl 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -hydroxybenzeneacetate	Zineb 12122-67-7	61007-05-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)phosphonothioate	Maneb 12427-38-2	61144-33-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)phosphonothioate and methyl 1H-benzimidazol-2-ylcarbamate	Maneb 12427-38-2	61144-35-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dichloro[1-[2-(2,4-dichloro phenyl)-2-(2-propenyloxy)ethyl]-1H-imidazole-N3] zinc and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	61258-09-1

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dichloro[1-[2-(2,4-dichloro phenyl)-2-(2-propenyloxy)ethyl]-1H-imidazole-N3]zinc and [[1,2-ethanediybis[carbomodithioato]](2-)] zinc	Zineb 12122-67-7	61258-09-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [(dimethoxyphosphinothioyl)thio]butanedioate and (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6- hexachlorocyclohexane	Zineb 12122-67-7	61461-26-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 9,10-anthracenedione, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6- hexachlorocyclohexane	Maneb 12427-38-2	61811-22-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 9,10-anthracenedione, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )- 1,2,3,4,5,6- hexachlorocyclohexane	Zineb 12122-67-7	61811-22-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-(4-thiazolyl)-1H-benzimidazole	Maneb 12427-38-2	61869-27-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5-butyl-2-(ethylamino)-6-methyl-4(1H)-pyrimidinone	Maneb 12427-38-2	61912-68-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,N'-[1,4-piperazinediybis(2,2,2-trichloroethylidene)]bis[form amide]	Maneb 12427-38-2	61912-69-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 6-methyl-1,3-dithio[4,5-b]quinoxalin-2-one	Zineb 12122-67-7	61952-96-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1,1-dichloro-N-[(dimethylamino)sulfonyl]-1-fluoro-N-phenylmethanesulfenamide	Zineb 12122-67-7	61952-97-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sulfur	Maneb 12427-38-2	61970-56-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sulfur and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	62240-14-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and purafil	Maneb 12427-38-2	62476-70-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and purafil	Zineb 12122-67-7	62476-70-4
Chromic acid (H <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> ), dipotassium salt, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	62476-72-6
Chromic acid (H <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> ), dipotassium salt, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	62476-72-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -(trichloromethyl)benzenemethanol, O,O-diethyl O-(4-nitrophenyl) phosphorothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	62682-57-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -(trichloromethyl)benzenemethanol, O,O-diethyl O-(4-nitrophenyl) phosphorothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	62682-57-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -(trichloromethyl)benzenemethanol, O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	62682-58-0

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -(trichloromethyl)benzenemethanol, O,O-dimethyl S-[4-oxo-1,2,3-benzo triazin-3(4H)-yl)methyl] phosphorodithioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	62682-58-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl 1H-benzimidazol-2-ylcarbamate	Maneb 12427-38-2	62713-28-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl 1H-benzimidazol-2-ylcarbamate	Zineb 12122-67-7	62713-28-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-cyclohexyl-2,5-dimethyl-3-furancarboxamide	Maneb 12427-38-2	63028-77-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl 1H-benzimidazol-2-ylcarbamate and 3a,4,7,7a-tetrahydro-2-[(1,1,2,2-tetrachloroethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	63665-18-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1H-benzimidazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	63665-19-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1H-benzimidazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	63665-19-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	63665-25-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	63665-25-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and urea	Maneb 12427-38-2	64034-47-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and urea	Zineb 12122-67-7	64034-47-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with urea	Zineb 12122-67-7	64034-68-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]](2-)]copper and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	64423-73-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]](2-)]copper and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	64423-73-0
Stannylum, triphenyl-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	64672-30-6
Stannylum, triphenyl-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	64672-30-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-iodo-N-phenylbenzamide and methyl 1H-benzimidazol-2-ylcarbamate	Maneb 12427-38-2	65394-82-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4,6-dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine	Maneb 12427-38-2	65887-93-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,2-dichloroethenyl dimethyl phosphate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	65932-30-1



Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,2-dichloroethenyl dimethyl phosphate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	65932-30-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro- $\alpha$ - (4-chlorophenyl)- $\alpha$ - (trichloromethyl)benzenemethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	65932-31-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -(trichloromethyl)benzenemethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	65932-31-2
Iron, tris(dimethylcarbomodithioato-S,S')-, (OC-6-11)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	66139-21-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with aluminum tris(ethyl phosphonate) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	66523-56-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with aluminum tris(ethyl phosphonate) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	66523-56-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-3H-imidazo[2,1-c]-1,2,4-dithiazole-3-thione, (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6- hexachlorocyclohexane and sulfur	Zineb 12122-67-7	67051-88-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl [1-(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate and sulfur	Maneb 12427-38-2	67051-89-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N,N'-[1,4-piperazinediybis(2,2,2-trichloroethylidene)] bis[formamide]	Maneb 12427-38-2	67055-41-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N,N'-[1,4-piperazinediybis(2,2,2-trichloroethylidene)] bis[formamide]	Zineb 12122-67-7	67055-41-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)phosphonothioate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	67055-43-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)phosphonothioate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	67055-43-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)phosphonothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	67055-44-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)phosphonothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	67055-44-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl 1H-benzimidazol-2-yl]carbamate and sulfur	Maneb 12427-38-2	67055-51-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and sulfur	Maneb 12427-38-2	67055-52-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with hexachlorobenzene	Maneb 12427-38-2	67452-31-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,6-dimethyl-4-tridecylmorpholine and methyl 1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	67689-92-3

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 5-methyl-3(2H)-isoxazolone	Maneb 12427-38-2	67760-61-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 5-methyl-3(2H)-isoxazolone	Zineb 12122-67-7	67760-61-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate and sulfur	Maneb 12427-38-2	67772-66-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate and sulfur	Zineb 12122-67-7	67772-66-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with barium sulfide (Ba(Sx)), dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	67797-80-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with barium sulfide (Ba(Sx)), dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	67797-80-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-aminobenzenesulfonic acid, 2-aminoethanol, dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	67872-27-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-aminobenzenesulfonic acid, 2-aminoethanol, dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	67872-27-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with $\alpha$ -(2-chlorophenyl)- $\alpha$ -(4-fluorophenyl)-5-pyrimidinemethanol	Maneb 12427-38-2	68315-77-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide	Zineb 12122-67-7	68327-13-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with bis(1-methylethyl) 5-nitro-1,3-benzenedicarboxylate and metiram	Metiram 9006-42-2	69577-85-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with bis(1-methylethyl) 5-nitro-1,3-benzenedicarboxylate and metiram	Maneb 12427-38-2	69577-85-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-3H-imidazo[2,1-c]-1,2,4-dithiazole-3-thione and tetrahydro-1,2,4,7-dithiadiazocine-3,8-dithione	Maneb 12427-38-2	69682-25-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide	Zineb 12122-67-7	69778-31-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with $\alpha$ -(2-chlorophenyl)- $\alpha$ -(4-chlorophenyl)-5-pyrimidinemethanol	Maneb 12427-38-2	70047-37-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-triazene	Maneb 12427-38-2	70221-37-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-1,3-benzodioxole, 2 (or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl 2-butenate and 2-methyl-4-oxo-3-(2-propenyl)-2-cyclopenten-1-yl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate	Zineb 12122-67-7	70221-57-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide and 2(or 4)-isooctyl-4,6(or 2,6)-dinitrophenyl 2-butenate	Maneb 12427-38-2	70840-33-4

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide and 2(or 4)-isooctyl-4,6 (or 2,6)-dinitrophenyl 2-butenate	Zineb 12122-67-7	70840-33-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl] O,O-dimethyl phosphorodithioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	70840-35-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl] O,O-dimethyl phosphorodithioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	70840-35-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [(dimethoxyphosphinothioyl)thio]butanedioate, S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl] O,O-dimethyl phosphorodithioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	70840-36-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [(dimethoxyphosphinothioyl)thio]butanedioate, S-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl] O,O-dimethyl phosphorodithioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	70840-36-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 1-naphthalenyl methylcarbamate	Maneb 12427-38-2	70840-39-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 1-naphthalenyl methylcarbamate	Zineb 12122-67-7	70840-39-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide	Maneb 12427-38-2	70840-41-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide	Zineb 12122-67-7	70840-41-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper(2+) carbonate (1:1), copper chloride oxide hydrate, copper(2+) sulfate (1:1) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	71062-01-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper(2+) carbonate (1:1), copper chloride oxide hydrate, copper(2+) sulfate (1:1) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	71062-01-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2-(4-thiazolyl)-1H-benzimidazole	Maneb 12427-38-2	71129-16-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2-(4-thiazolyl)-1H-benzimidazole	Zineb 12122-67-7	71129-16-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with hexachlorobenzene and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	71173-92-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	Maneb 12427-38-2	71300-38-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [[1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate], [1,2-ethanediybis[carbomodithioato]](2-)]zinc, 5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole, pentachloronitrobenzene, 2,4,5,6-tetrachloro-1,3-benzene dicarbonitrile, and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S)) <sub>2</sub> S <sub>2</sub> )	Maneb 12427-38-2	71753-00-9

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate], [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, 5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole, pentachloronitrobenzene, 2,4,5,6-tetrachloro-1,3-benzene dicarbonitrile, and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S)) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	71753-00-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate], ethyl 3-methyl-4-(methylthio)phenyl (1-methylethyl)phosphoramidate and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	71753-01-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate] and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	71753-02-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [[1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate], [1,2-ethanediybis[carbomodithioato]](2-)]zinc, 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S)) <sub>2</sub> S <sub>2</sub> )	Maneb 12427-38-2	71789-19-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate], [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S)) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	71789-19-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, methyl 1H-benzimidazol-2-ylcarbamate and sulfur	Maneb 12427-38-2	72852-36-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, methyl 1H-benzimidazol-2-ylcarbamate and sulfur	Zineb 12122-67-7	72852-36-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, sulfur and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	73347-96-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc, sulfur and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Zineb 12122-67-7	73347-96-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (T-4)-bis(methylcarbomodithioato-S,S')zinc	Maneb 12427-38-2	73468-90-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (acetyloxy)triphenylstannane and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	73810-10-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (acetyloxy)triphenylstannane and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	73810-10-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 3a,4,7,7a-tetrahydro-2-[(1,1,2,2-tetrachloroethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	73924-56-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 3a,4,7,7a-tetrahydro-2-[(1,1,2,2-tetrachloroethyl)thio]-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	73924-56-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with α-(2-chlorophenyl)-α-(4-chlorophenyl)-5-pyrimidinemethanol and methyl 1H-benzimidazol-2-ylcarbamate	Maneb 12427-38-2	74522-90-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with α-(2-chlorophenyl)-α-(4-fluorophenyl)-5-pyrimidinemethanol and methyl 1H-benzimidazol-2-ylcarbamate	Maneb 12427-38-2	75308-86-0

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [μ-[carbonato(2-)-O:O']] dihydroxydicopper, copper chloride oxide hydrate, copper(2+) sulfate (1:1), [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and iron(3+)(OC-6-11)-hexakis(cyano-C)ferrate(4-) (4:3)	Maneb 12427-38-2	75458-88-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [μ-[carbonato(2-)-O:O']] dihydroxydicopper, copper chloride oxide hydrate, copper(2+) sulfate (1:1), [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and iron(3+)(OC-6-11)-hexakis(cyano-C)ferrate(4-) (4:3)	Zineb 12122-67-7	75458-88-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [μ-[carbonato(2-)-O:O']] dihydroxydicopper, copper chloride oxide hydrate, copper(2+) sulfate (1:1) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	75498-12-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [μ-[carbonato(2-)-O:O']] dihydroxydicopper, copper chloride oxide hydrate, copper(2+) sulfate (1:1) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	75498-12-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and hexakis(2-methyl-2-phenylpropyl)distannoxane	Maneb 12427-38-2	75517-91-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and hexakis(2-methyl-2-phenylpropyl)distannoxane	Zineb 12122-67-7	75517-91-8
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methylester, mixt. with [[1,2-ethanediy bis[carbomodithioato]](2-)]manganese and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	75701-74-5
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with [[1,2-ethanediy bis[carbomodithioato]](2-)]manganese and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	75701-74-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with zinc	Maneb 12427-38-2	75789-54-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	75848-18-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, sulfur and urea	Zineb 12122-67-7	75901-77-8
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sulfur and urea	Zineb 12122-67-7	75901-78-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-N-(2,6-dimethylphenyl)-N-(tetrahydro-2-oxo-3-furanyl)acetamide	Maneb 12427-38-2	76110-41-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-2-quinoxaliny phosphorothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	76522-24-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-2-quinoxaliny phosphorothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	76522-24-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-(4-nitrophenyl) phosphorothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	76522-25-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-(4-nitrophenyl) phosphorothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	76522-25-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with S-[(6-chloro-2-oxo-3(2H)-benzoxazolyl)methyl] O,O-diethyl phosphorodithioate and [[1,2-ethanediybis[carbomodithioato]] (2-)]zinc	Maneb 12427-38-2	76564-28-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with S-[(6-chloro-2-oxo-3(2H)-benzoxazolyl)methyl] O,O-diethyl phosphorodithioate and [[1,2-ethanediybis[carbomodithioato]] (2-)]zinc	Zineb 12122-67-7	76564-28-8

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3a,4,7,7a-tetrahydro-2-[(1,1,2,2-tetrachloroethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	77018-79-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile	Maneb 12427-38-2	77018-86-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-(1-phenyl-1H-1,2,4-triazol-3-yl) phosphorothioate	Maneb 12427-38-2	77018-90-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (acetyloxy)triphenylstannane and O,O-diethyl O-(1-phenyl-1H-1,2,4-triazol-3-yl) phosphorothioate	Maneb 12427-38-2	77045-76-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate and methyl [1-(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	78591-06-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate]	Maneb 12427-38-2	80386-93-2
2,4-Oxazolinedione, 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-, mixt. with Metiram	Metiram 9006-42-2	80456-52-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-methylethyl (3-chlorophenyl)carbamate and 1-methylethyl phenylcarbamate	Maneb 12427-38-2	81024-59-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with zinc sulfate (1:1)	Zineb 12122-67-7	81313-82-8
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sodium hydrogen carbonate	Zineb 12122-67-7	81313-85-1
Carbamic acid, [1-(butylamino)carbonyl]-1H-benzimidazol-2-yl-, methyl ester, mixt. with metiram and nonyl carbamimidothioate monohydrochloride	Metiram 9006-42-2	81341-34-6
Carbamimidothioic acid, nonyl ester, monohydrochloride, mixt. with hexachlorobenzene and metiram	Metiram 9006-42-2	81341-33-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate and 2-cyano-N-(ethylamino)carbonyl-2-(methoxyimino)acetamide	Zineb 12122-67-7	82245-64-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,4,5-trimethyl-N-phenyl-3-furancarboxamide	Maneb 12427-38-2	82602-16-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2,4,5-trimethyl-N-phenyl-3-furancarboxamide	Maneb 12427-38-2	82602-17-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2,4,5-trimethyl-N-phenyl-3-furancarboxamide	Zineb 12122-67-7	82602-17-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with $\alpha$ -(2-chlorophenyl)- $\alpha$ -(4-fluorophenyl)-5-pyrimidinemethanol and (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-hexachlorocyclohexane	Maneb 12427-38-2	82615-97-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sulfur and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	82709-33-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper(2+) sulfate (1:1) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	82782-81-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper(2+) sulfate (1:1) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	82782-81-8

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper(2+) sulfate (1:1)	Maneb 12427-38-2	82782-84-1
Carbamodithioic acid, dimethyl-, sodium salt, mixt. with 1,2-ethanediybis[carbomodithioic acid] disodium salt	Nabam 142-59-6	82795-38-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl 1H-benzimidazol-2-ylcarbamate and tridemorph	Maneb 12427-38-2	83348-59-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(3-chlorophenyl)-N-(tetrahydro-2-oxo-3-furanyl)cyclopropanecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	83446-59-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(3-chlorophenyl)-N-(tetrahydro-2-oxo-3-furanyl)cyclopropanecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	83446-59-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with pentachloronitrobenzene and 2-(4-thiazolyl)-1H-benzimidazole	Maneb 12427-38-2	83687-60-9
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methylester, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese	Maneb 12427-38-2	84561-36-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]-1H-imidazole-1-carboxamide	Maneb 12427-38-2	84641-99-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]-1H-imidazole-1-carboxamide	Zineb 12122-67-7	84641-99-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper	Zineb 12122-67-7	84685-70-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl [1-[(butylamino) carbonyl]-1H-benzimidazol-2-yl]carbamate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 1-naphthalenyl methylcarbamate	Maneb 12427-38-2	84780-43-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl [1-[(butylamino) carbonyl]-1H-benzimidazol-2-yl]carbamate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 1-naphthalenyl methylcarbamate	Zineb 12122-67-7	84780-43-8
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3-(3,5-dichlorophenyl)-1,5-dimethyl-3-azabicyclo[3.1.0]hexane-2,4-dione	Zineb 12122-67-7	85004-42-8
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide	Zineb 12122-67-7	85004-44-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with metiram	Metiram 9006-42-2	85109-81-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with metiram	Zineb 12122-67-7	85109-81-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-bromo-6-methyl-4-(phenylmethyl)phenol	Zineb 12122-67-7	85341-69-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-6-methyl-4-[[4-(1-methylethyl)phenyl]methyl]phenol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	85341-71-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-6-methyl-4-[[4-(1-methylethyl)phenyl]methyl]phenol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	85341-71-5

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-6-ethyl-4-(phenylmethyl)phenol	Maneb 12427-38-2	85341-73-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,4,5-trimethyl-N-phenyl-3-furancarboxamide and zinc	Maneb 12427-38-2	85389-69-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide	Maneb 12427-38-2	86102-39-8
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	86455-74-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O-[2-(diethylamino)-6-methyl-4-pyrimidinyl] O,O-dimethyl phosphorothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	87244-90-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O-[2-(diethylamino)-6-methyl-4-pyrimidinyl] O,O-dimethyl phosphorothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	87244-90-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	88566-76-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	88566-76-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper, N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	88566-77-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper, N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	88566-77-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (E)-β-[(2,4-dichlorophenyl)methylene]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	Maneb 12427-38-2	88823-06-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (E)-β-[(2,4-dichlorophenyl)methylene]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	Zineb 12122-67-7	88823-07-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (E)-β-[(2,4-dichlorophenyl)methylene]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	88823-08-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (E)-β-[(2,4-dichlorophenyl)methylene]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	88823-08-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [(dimethoxyphosphinothioyl)thio]butanedioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	90760-40-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with diethyl [(dimethoxyphosphinothioyl)thio]butanedioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	90760-40-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	91997-64-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	91997-64-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole	Maneb 12427-38-2	92392-04-6



Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 5-ethoxy-3-(trichloromethyl)-1,2,4-thiadiazole	Zineb 12122-67-7	92392-04-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (Z)-2-chloro-1-(2,4,5-trichlorophenyl)ethenyl dimethyl phosphate and copper	Zineb 12122-67-7	92981-26-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sulfur and 2-(4-thiazolyl)-1H-benzimidazole	Maneb 12427-38-2	93511-99-0
DL-Alanine, N-(2,6-dimethylphenyl)-N-(phenylacetyl)-, methylester, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	94786-86-4
DL-Alanine, N-(2,6-dimethylphenyl)-N-(phenylacetyl)-, methyl ester, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]manganese and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	94786-86-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide 4,4-dioxide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	94935-55-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide 4,4-dioxide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	94935-55-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O-[2-(diethylamino)-6-methyl-4-pyrimidinyl] O,O-dimethyl phosphorothioate and methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Zineb 12122-67-7	95081-43-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	95359-56-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,10-dihydro-5,10-dioxonaphtho[2,3-b]-1,4-dithiin-2,3-dicarbonitrile and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	95359-56-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with ammonium molybdenum oxide, boric acid (H <sub>3</sub> BO <sub>3</sub> ) and dimethyl (2,2,2-trichloro-1-hydroxyethyl)phosphonate	Zineb 12122-67-7	95529-11-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-6-methyl-4-(phenylmethyl)phenol	Zineb 12122-67-7	95896-66-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone and methyl 1H-benzimidazol-2-ylcarbamate	Maneb 12427-38-2	96234-92-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-butyl-4H-1,2,4-triazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	96610-70-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-butyl-4H-1,2,4-triazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	96610-70-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with tridemorph	Maneb 12427-38-2	96828-35-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sodium hydrogen carbonate	Maneb 12427-38-2	99126-17-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with magnesium carbonate (1:1)	Maneb 12427-38-2	99126-18-8
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dipotassium carbonate	Zineb 12122-67-7	99126-19-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with potassium hydrogen carbonate	Zineb 12122-67-7	99126-20-2

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with potassium hydrogen carbonate	Maneb 12427-38-2	99126-21-3
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and potassium hydrogen carbonate	Maneb 12427-38-2	99150-74-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and potassium hydrogen carbonate	Zineb 12122-67-7	99150-74-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with disodium carbonate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	99150-75-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with disodium carbonate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	99150-75-1
D-Streptamine, O-2-deoxy-2-(methylamino)- $\alpha$ -L- glucopyranosyl-(1 $\rightarrow$ 2)-O-5-deoxy- 3-C-formyl- $\alpha$ -L-lyxofuranosyl-(1 $\rightarrow$ 4)-N,N'-bis(aminoiminomethyl)-, mixt. with [4S-(4 $\alpha$ ,4 $\alpha\alpha$ ,5 $\alpha$ ,5 $\alpha\alpha$ ,6 $\beta$ ,12 $\alpha\alpha$ )]- 4-(dimethylamino)- 1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12,12a- hexahydroxy-6-methyl-1,11-dioxo-2-naphthacene-carboxamide, [[1,2-ethanediybis[carbomodithiato]](2-)]manganese and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	99375-94-7
D-Streptamine, O-2-deoxy-2-(methylamino)- $\alpha$ -L- glucopyranosyl-(1 $\rightarrow$ 2)-O-5-deoxy-3-C- formyl- $\alpha$ -L-lyxofuranosyl-(1 $\rightarrow$ 4)-N,N'-bis(aminoiminomethyl)-, mixt. with [4S-(4 $\alpha$ ,4 $\alpha\alpha$ ,5 $\alpha$ ,5 $\alpha\alpha$ ,6 $\beta$ ,12 $\alpha\alpha$ )]-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a- octahydro-3,5,6,10,12,12a-hexahydroxy-6-methyl-1,11-dioxo-2-naphthacene-carboxamide, [[1,2-ethanediybis[carbomodithiato]](2-)]manganese and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	99375-94-7
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide, N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	99629-34-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide, N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	99629-34-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide	Maneb 12427-38-2	100308-00-7
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methylester, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide, [[1,2-ethanediybis[carbomodithiato]](2-)]manganese and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	100308-01-8
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide, [[1,2-ethanediybis[carbomodithiato]](2-)]manganese and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	100308-01-8
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(3-chlorophenyl)-N-(tetrahydro-2-oxo-3-furanyl)cyclopropanecarboxamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	100308-02-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(3-chlorophenyl)-N-(tetrahydro-2-oxo-3-furanyl)cyclopropanecarboxamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	100308-02-9
Zinc, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide	Zineb 12122-67-7	100308-04-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide, [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and ethyl hydrogen phosphonate aluminum salt	Maneb 12427-38-2	100308-08-5

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide, [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and ethyl hydrogen phosphonate aluminum salt	Zineb 12122-67-7	100308-08-5
Acetamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)-, mixt. with metiram	Metiram 9006-42-2	100756-25-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and ethyl hydrogen phosphonate	Maneb 12427-38-2	100756-24-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and ethyl hydrogen phosphonate	Zineb 12122-67-7	100756-24-9
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methylester, mixt. with (T-4)-bis(dimethylcarbomodithiato-S,S')zinc, [[1,2-ethanediybis[carbomodithiato]](2-)]manganese and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	101362-28-1
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with (T-4)-bis(dimethylcarbomodithiato-S,S')zinc, [[1,2-ethanediybis[carbomodithiato]](2-)]manganese and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	101362-28-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with copper hydroxide (Cu(OH) <sub>2</sub> )	Maneb 12427-38-2	101755-14-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with ammonium copper carbonate	Maneb 12427-38-2	101755-15-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide, 1-(8-hydroxy-5-quinolinyl)ethanone sulfate (2:1) (salt) and methyl [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate	Maneb 12427-38-2	102985-67-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with colfugo and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	103183-02-4
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with colfugo and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	103183-02-4
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with copper chloride oxide sulfate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	104193-70-6
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with copper chloride oxide sulfate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	104193-70-6
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with citcop 4E and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	104193-72-8
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with citcop 4E and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	104193-72-8
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with copper hydroxide sulfate (Cu <sub>4</sub> (OH) <sub>6</sub> (SO <sub>4</sub> )) and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	104193-73-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with copper hydroxide sulfate (Cu <sub>4</sub> (OH) <sub>6</sub> (SO <sub>4</sub> )) and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	104193-73-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with ammonium copper carbonate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	104193-74-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with ammonium copper carbonate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	104193-74-0

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with basic copper sulfate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	104193-75-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with basic copper sulfate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	104193-75-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper hydroxide (Cu(OH) <sub>2</sub> ) and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	104317-51-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole	Zineb 12122-67-7	104369-04-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone	Zineb 12122-67-7	104369-05-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper hydroxide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	104570-90-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper hydroxide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	104570-90-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]-1H-imidazole-1-carboxamide	Maneb 12427-38-2	104585-72-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with β-([1,1'-biphenyl]-4-yloxy)-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	104750-85-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with β-([1,1'-biphenyl]-4-yloxy)-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	104750-85-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	104813-24-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	104813-24-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-[2,2,2-trichloro-1-(4-morpholinyl)ethyl]formamide	Maneb 12427-38-2	105347-94-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-[2,2,2-trichloro-1-(4-morpholinyl)ethyl]formamide	Zineb 12122-67-7	105347-94-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2,6-dichloro-4-nitrobenzenamine and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	106235-56-7
1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-, mixt. with Metiram and sulfur	Metiram 9006-42-2	106425-66-5
5-Pyrimidinemethanol, α-(2-chlorophenyl)-α-(4-chlorophenyl)-, mixt. with metiram	Metiram 9006-42-2	106425-67-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with α-(2-chlorophenyl)-α-(4-fluorophenyl)-5-pyrimidinemethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	106425-65-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with α-(2-chlorophenyl)-α-(4-fluorophenyl)-5-pyrimidinemethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	106425-65-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-[3-[4-(1,1-dimethylethyl)phenyl]-2-methylpropyl]-2,6-dimethylmorpholine	Maneb 12427-38-2	106605-82-7

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	106745-78-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with $\alpha$ -butyl- $\alpha$ -(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	107452-09-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with $\alpha$ -butyl- $\alpha$ -(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	107452-09-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2-chloro-N-(2,6-dimethylphenyl)-N-(tetrahydro-2-oxo-3-furanyl)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	108043-20-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2-chloro-N-(2,6-dimethylphenyl)-N-(tetrahydro-2-oxo-3-furanyl)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	108043-20-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with poly(1,4-piperazinediylcarbonothioyldithiocarbonothioyl) and tridemorph	Zineb 12122-67-7	108939-23-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	109118-59-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	109118-59-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	109118-60-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	109118-60-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	109265-97-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with $\alpha$ -butyl- $\alpha$ -phenyl-1H-imidazole-1-propanenitrile and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	109578-97-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with $\alpha$ -butyl- $\alpha$ -phenyl-1H-imidazole-1-propanenitrile and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	109578-97-4
1,3-Benzenedicarboxylic acid, 5-nitro-, bis(1-methylethyl) ester, mixt. with LAB 177369F and Metiram	Metiram 9006-42-2	109770-58-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	109885-98-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	109885-98-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	110102-14-2

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione, [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	110102-14-2
Carbamic acid, [1-[(butylamino)carbonyl]-1H-benzimidazol-2-yl]-, methyl ester, mixt. with Metiram and 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-1H-isoindole-1,3(2H)-dione	Metiram 9006-42-2	110413-77-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with S-[(4-chlorophenyl)methyl] diethylcarbamothioate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	110671-93-7
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with S-[(4-chlorophenyl)methyl] diethylcarbamothioate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	110671-93-7
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methylester, mixt. with metiram	Metiram 9006-42-2	110741-03-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with (E)-dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl phosphate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	111073-42-8
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with (E)-dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl phosphate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	111073-42-8
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc, O-[2-(ethylthio)ethyl] O,O-dimethylphosphorothioate and S-[2-(ethylthio)ethyl] O,O-dimethylphosphorothioate	Maneb 12427-38-2	111073-43-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithiato]](2-)]zinc, O-[2-(ethylthio)ethyl] O,O-dimethylphosphorothioate and S-[2-(ethylthio)ethyl] O,O-dimethylphosphorothioate	Zineb 12122-67-7	111073-43-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] phosphorodithioate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	111073-44-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] phosphorodithioate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	111073-44-0
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methylester, mixt. with [[1,2-ethanediy bis[carbomodithiato]](2-)]manganese, [[1,2-ethanediybis[carbomodithiato]](2-)]zinc, pentachloro nitrobenzene and 3a,4,7,7a-tetrahydro-2-[(1,1,2,2-tetrachloroethyl)thio]-1H-isoindole-1,3(2H)-dione	Maneb 12427-38-2	111520-44-6
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with [[1,2-ethanediy bis[carbomodithiato]](2-)]manganese, [[1,2-ethanediybis[carbomodithiato]](2-)]zinc, pentachloro nitrobenzene and 3a,4,7,7a-tetrahydro-2-[(1,1,2,2-tetrachloroethyl)thio]-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	111520-44-6
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 2-bromo-2-nitro-1,3-propanediol and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	112617-49-9
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 2-bromo-2-nitro-1,3-propanediol and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	112617-49-9
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with copper chloride oxide hydrate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	112628-03-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with (1 $\alpha$ ,2 $\alpha$ ,3 $\beta$ ,4 $\alpha$ ,5 $\alpha$ ,6 $\beta$ )-1,2,3,4,5,6-hexachlorocyclohexane	Maneb 12427-38-2	113387-15-8
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine	Maneb 12427-38-2	113803-63-7
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	114088-36-7

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3-chloro-N-[3-chloro-2,6-dinitro-4-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2-pyridinamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	114088-36-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and P 43 (fungicide)	Maneb 12427-38-2	114758-72-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and P 43 (fungicide)	Zineb 12122-67-7	114758-72-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with P 43	Zineb 12122-67-7	114758-73-5
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methylester, mixt. with (acetyloxy)triphenylstannane and [[1,2-ethanediybis[carbomodithioato]](2-)]manganese	Maneb 12427-38-2	114803-48-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with sodium ethyl phosphonate	Maneb 12427-38-2	115039-05-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with magnesium 1-methylethyl phosphonate	Maneb 12427-38-2	115039-10-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with calcium 1-methylethyl phosphonate	Maneb 12427-38-2	115039-13-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with aluminum 1-methylethyl phosphonate	Maneb 12427-38-2	115039-16-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with calcium ethyl phosphonate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	115039-25-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with calcium ethyl phosphonate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	115039-25-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with aluminum tris(ethyl phosphonate)	Maneb 12427-38-2	115056-19-4
Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, tetrasodium salt, mixt. with 1,2-ethanediybis[carbomodithioic acid] disodium salt	Nabam 142-59-6	115636-58-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-[3-(3,4-dimethoxyphenyl)-1-oxo-3-phenyl-2-propenyl]morpholine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	116876-43-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-[3-(3,4-dimethoxyphenyl)-1-oxo-3-phenyl-2-propenyl]morpholine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	116876-43-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-[3-[1,1'-biphenyl]-4-yl-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]morpholine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	116876-44-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-[3-[1,1'-biphenyl]-4-yl-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]morpholine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	116876-44-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-dimethyl O-(4-nitrophenyl) phosphorothioate	Zineb 12122-67-7	117266-28-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with niphimycin	Zineb 12122-67-7	117317-40-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] phosphorodithioate	Zineb 12122-67-7	117317-53-0

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
L-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with 1-(2-chloroethyl)-1,1-dimethylhydrazinium, copper chloride oxide hydrate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	117599-15-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 1-[2-(2,4-dichlorophenyl)pentyl]-1H-1,2,4-triazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	117660-41-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 1-[2-(2,4-dichlorophenyl)pentyl]-1H-1,2,4-triazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	117660-41-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)acetamide and zinc sulfate (1:1)	Maneb 12427-38-2	119130-84-6
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tridemorph	Zineb 12122-67-7	119202-38-9
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with aldimorph and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	119219-11-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tridemorph	Maneb 12427-38-2	119219-12-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tridemorph	Zineb 12122-67-7	119219-12-4
DL-Alanine, N-(2,6-dimethylphenyl)-N-(5-isoxazolylcarbonyl)-, methyl ester, mixt. with metiram and tridemorph	Metiram 9006-42-2	119252-76-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (4-chlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate	Maneb 12427-38-2	119315-99-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (4-chlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate	Zineb 12122-67-7	119316-00-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (3,4-dichlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate	Maneb 12427-38-2	119316-03-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (3,4-dichlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate	Zineb 12122-67-7	119316-04-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (3,4-dichlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	119316-05-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (3,4-dichlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	119316-05-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (2,4-dichlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate	Maneb 12427-38-2	119316-08-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (4-chlorophenyl)methyl N-(2-chloro-4-fluorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	119316-09-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with (4-chlorophenyl)methyl N-(2-chloro-4-fluorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	119316-09-5



Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (4-chlorophenyl)methyl N-(2-chloro-4-fluorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate	Maneb 12427-38-2	119316-12-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (4-chlorophenyl)methyl N-(2-chloro-4-fluorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate	Zineb 12122-67-7	119316-13-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (4-chlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	119316-15-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (4-chlorophenyl)methyl N-(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanimidothioate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	119316-15-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with methyl [1-(butylamino)carbonyl]-1H-benzimidazol-2-yl]carbamate and tridemorph	Maneb 12427-38-2	119399-59-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]morpholine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	119793-38-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-[3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)-1-oxo-2-propenyl]morpholine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	119793-38-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	119884-25-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	119884-25-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3a,4,7,7a-tetrahydro-2-[(1,1,2,2-tetrachloroethyl)thio]-1H-isoindole-1,3(2H)-dione	Zineb 12122-67-7	120502-25-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro- $\alpha$ -(4-chlorophenyl)- $\alpha$ -(trichloromethyl)benzenemethanol and diethyl [(dimethoxyphosphinothioyl)thio]butanedioate	Zineb 12122-67-7	120720-91-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Maneb 12427-38-2	120973-11-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Zineb 12122-67-7	120973-11-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 1-(tricyclohexylstanny)-1H-1,2,4-triazole	Maneb 12427-38-2	120973-14-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 1-(tricyclohexylstanny)-1H-1,2,4-triazole	Zineb 12122-67-7	120973-14-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,S-dimethyl acetylphosphoramidothioate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Maneb 12427-38-2	120973-15-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,S-dimethyl acetylphosphoramidothioate, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Zineb 12122-67-7	120973-15-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro-N-(cyanoethoxymethyl)benzamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	122907-21-5

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro-N-(cyanoethoxymethyl)benzamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	122907-21-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, copper(2+) sulfate (1:1), 2,3-dichloro-1,4-naphthalenedione and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123017-94-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, copper(2+) sulfate (1:1), 2,3-dichloro-1,4-naphthalenedione and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123017-94-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-cyclohexyl-N-methoxy-2,5-dimethyl-3-furancarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123304-04-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-cyclohexyl-N-methoxy-2,5-dimethyl-3-furancarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123304-04-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide	Zineb 12122-67-7	123551-78-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-1-ethyl-3-methyl-1H-pyrazole-4-carboxamide	Zineb 12122-67-7	123551-79-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyanobutyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide	Zineb 12122-67-7	123551-80-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123551-81-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123551-81-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123551-82-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123551-82-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123551-83-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123551-83-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123551-84-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123551-84-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyanophenylmethyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123551-85-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyanophenylmethyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123551-85-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-1-ethyl-3-methyl-1H-pyrazole-4-carboxamide	Zineb 12122-67-7	123589-39-9

<b>Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb</b>		
<b>Mixture Name</b>	<b>Component</b>	<b>Mixture CAS Number</b>
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide	Zineb 12122-67-7	123589-40-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-1-methyl-3-(1-methylethyl)-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123589-65-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-1-methyl-3-(1-methylethyl)-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123589-65-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-3-thienylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123589-66-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-3-thienylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123589-66-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-3-methyl-1-phenyl-1H-pyrazole-4-carboxamide	Zineb 12122-67-7	123589-77-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-3-methyl-1-(1-methylethyl)-1H-pyrazole-4-carboxamide	Zineb 12122-67-7	123589-78-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-3-methyl-1-(1-methylethyl)-1H-pyrazole-4-carboxamide	Zineb 12122-67-7	123589-79-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-3-furanylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123589-80-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-3-furanylmethyl)-1,3-dimethyl-1H-pyrazole-4-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123589-80-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123589-81-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123589-81-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyanobutyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123589-82-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyanobutyl)-1,3-dimethyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123589-82-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123615-58-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123615-58-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123615-60-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123615-60-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	123615-61-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	123615-61-2

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(cyano-3-thienylmethyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	123615-62-3
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(cyano-3-thienylmethyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	123615-62-3
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(cyanophenylmethyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	123615-78-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(cyanophenylmethyl)-2,4-dimethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	123615-78-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-2,4-diethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	123615-79-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-2,4-diethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	123615-79-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with O,O-diethyl [2-(dipropylamino)-2-oxoethyl]ethylphosphoramidothioate, [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and N,N'-[1,4-piperazinediybis(2,2,2-trichloroethylidene)]bis[formamide]	Maneb 12427-38-2	123615-95-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with O,O-diethyl [2-(dipropylamino)-2-oxoethyl]ethylphosphoramidothioate, [[1,2-ethanediybis[carbomodithiato]](2-)]zinc and N,N'-[1,4-piperazinediybis(2,2,2-trichloroethylidene)]bis[formamide]	Zineb 12122-67-7	123615-95-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with O,O-diethyl [2-(dipropylamino)-2-oxoethyl]ethylphosphoramidothioate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	123616-02-4
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with O,O-diethyl [2-(dipropylamino)-2-oxoethyl]ethylphosphoramidothioate and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	123616-02-4
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-2,4-diethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	123633-91-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(cyano-2-furanylmethyl)-2,4-diethyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	123633-91-0
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-4-ethyl-2-methyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Maneb 12427-38-2	123713-29-1
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with N-(1-cyano-3-methyl-2-butenyl)-4-ethyl-2-methyl-5-thiazolecarboxamide and [[1,2-ethanediybis[carbomodithiato]](2-)]zinc	Zineb 12122-67-7	123713-29-1
Zinc, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with propyl [3-(dimethylamino)propyl] carbamate, N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide and [[1,2-ethanediybis[carbomodithiato]](2-)]manganese	Maneb 12427-38-2	123814-02-8
Zinc, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with propyl [3-(dimethylamino)propyl] carbamate, N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide and [[1,2-ethanediybis[carbomodithiato]](2-)]manganese	Zineb 12122-67-7	123814-02-8
Carbamic acid, [3-(dimethylamino)propyl]-, propyl ester, monohydrochloride, mixt. with metiram	Metiram 9006-42-2	125084-06-2
Manganese, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with propyl [3-(dimethylamino)propyl]carbamate monohydrochloride	Maneb 12427-38-2	125084-04-0
Zinc, [[1,2-ethanediybis[carbomodithiato]](2-)-, mixt. with propyl [3-(dimethylamino)propyl]carbamate	Zineb 12122-67-7	125084-07-3

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with $\alpha$ -(2-chlorophenyl)- $\alpha$ -(4-fluorophenyl)-5-pyrimidinemethanol and copper chloride oxide hydrate	Zineb 12122-67-7	126100-23-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(2,4-dichlorophenyl)-2-(3-pyridinyl)ethanone O-methylxime and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	126187-18-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(2,4-dichlorophenyl)-2-(3-pyridinyl)ethanone O-methylxime and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	126187-18-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro-2-cyano-N,N-dimethyl-5-propyl-1H-imidazole-1-sulfonamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	127123-53-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro-2-cyano-N,N-dimethyl-5-propyl-1H-imidazole-1-sulfonamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	127123-53-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro-2-cyano-N,N-dimethyl-5-phenyl-1H-imidazole-1-sulfonamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	127123-54-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4-chloro-2-cyano-N,N-dimethyl-5-phenyl-1H-imidazole-1-sulfonamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	127123-54-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	12766-48-2
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with [[1,2-ethanediy bis[carbomodithioato]](2-)]manganese, [[1,2-ethanediybis [carbomodithioato]](2-)]zinc and tetrahydro-1,2,4,7-dithiadiazocine- 3,8-dithione	Maneb 12427-38-2	127715-17-7
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with [[1,2-ethanediy bis[carbomodithioato]](2-)]manganese, [[1,2-ethanediybis [carbomodithioato]](2-)]zinc and tetrahydro-1,2,4,7-dithiadiazocine-3,8-dithione	Zineb 12122-67-7	127715-17-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomo dithioato]](2-)]zinc, ethyl hydrogen phosphonate aluminum salt and tetrahydro-1,2,4,7-dithiadiazocine-3,8-dithione	Maneb 12427-38-2	127774-61-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomo dithioato]](2-)]zinc, ethyl hydrogen phosphonate aluminum salt and tetrahydro-1,2,4,7-dithiadiazocine-3,8-dithione	Zineb 12122-67-7	127774-61-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and propyl [3-(dimethylamino)propyl]carbamate	Maneb 12427-38-2	127812-34-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and propyl [3-(dimethylamino)propyl]carbamate	Zineb 12122-67-7	127812-34-4
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with copper chloride hydroxide (Cu <sub>2</sub> Cl(OH) <sub>3</sub> ), [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tetrahydro-1,2,4,7- dithiadiazocine-3,8-dithione	Zineb 12122-67-7	127963-76-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 8-quinolinol sulfate (2:1) (salt)	Zineb 12122-67-7	127964-14-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 8-quinolinol sulfate (2:1) (salt)	Maneb 12427-38-2	128061-10-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 8-quinolinol sulfate (2:1) (salt)	Zineb 12122-67-7	128061-10-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-(2-chloroethoxy)-1,3,2-oxathiaphospholane 2-sulfide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	128374-58-3

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-(2-chloroethoxy)-1,3,2-oxathiaphospholane 2-sulfide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	128374-58-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	128451-19-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3-(3,5-dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Zineb 12122-67-7	128451-19-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	128451-20-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Zineb 12122-67-7	128451-20-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-[[bis(4-fluorophenyl)methylsilyl]methyl]-1H-1,2,4-triazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	129249-23-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-[[bis(4-fluorophenyl)methylsilyl]methyl]-1H-1,2,4-triazole and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	129249-23-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (+, -)- $\alpha$ -butyl- $\alpha$ -(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	129249-24-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (+, -)- $\alpha$ -butyl- $\alpha$ -(2,4-dichlorophenyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	129249-24-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with $\alpha$ -(4-chlorophenyl)- $\alpha$ -(1-cyclopropylethyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	129249-26-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with $\alpha$ -(4-chlorophenyl)- $\alpha$ -(1-cyclopropylethyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	129249-26-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with CGA 453 and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	129588-62-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with CGA 453 and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	129588-62-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-[1-(2-furanyl)-2-(hydroxyamino)-2-iminoethyl]-3-methyl-1-(1-methylethyl)-1H-pyrazole-5-carboxamide	Maneb 12427-38-2	130331-89-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-[1-(2-furanyl)-2-(hydroxyamino)-2-iminoethyl]-3-methyl-1-(1-methylethyl)-1H-pyrazole-5-carboxamide	Zineb 12122-67-7	130331-89-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-[1-(2-furanyl)-2-(hydroxyamino)-2-iminoethyl]-1,3-dimethyl-1H-pyrazole-5-carboxamide	Maneb 12427-38-2	130332-01-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-[1-(2-furanyl)-2-(hydroxyamino)-2-iminoethyl]-1,3-dimethyl-1H-pyrazole-5-carboxamide	Zineb 12122-67-7	130332-01-3

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(cyclopropylmethyl)-N-[2-(hydroxyamino)-2-imino-1-(2-thienyl)ethyl]-3-methyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	130394-20-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(cyclopropylmethyl)-N-[2-(hydroxyamino)-2-imino-1-(2-thienyl)ethyl]-3-methyl-1H-pyrazole-5-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	130394-20-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 1-ethyl-N-[2-(hydroxyamino)-2-imino-1-(2-thienyl)ethyl]-3-methyl-1H-pyrazole-5-carboxamide	Maneb 12427-38-2	130394-30-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 1-ethyl-N-[2-(hydroxyamino)-2-imino-1-(2-thienyl)ethyl]-3-methyl-1H-pyrazole-5-carboxamide	Zineb 12122-67-7	130394-30-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-[2-(hydroxyamino)-2-imino-1-(2-thienyl)ethyl]-1,3-dimethyl-1H-pyrazole-5-carboxamide	Maneb 12427-38-2	130394-35-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and N-[2-(hydroxyamino)-2-imino-1-(2-thienyl)ethyl]-1,3-dimethyl-1H-pyrazole-5-carboxamide	Zineb 12122-67-7	130394-35-3
Alatsid, mixt. with Metiram	Metiram 9006-42-2	131790-78-8
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester, mixt. with Metiram	Metiram 9006-42-2	133092-88-3
Phosphoric acid, dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl ester, (E)-, mixt. with Metiram	Metiram 9006-42-2	133092-89-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate	Zineb 12122-67-7	135579-43-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and thiourea	Maneb 12427-38-2	135579-53-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and thiourea	Zineb 12122-67-7	135579-53-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with thiourea	Zineb 12122-67-7	135579-54-3
Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl)methyl ester, [1R-[1 $\alpha$ (S*),3 $\alpha$ ]-, mixt. with Metiram and sulfur	Metiram 9006-42-2	135695-29-3
Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester, mixt. with Metiram and sulfur	Metiram 9006-42-2	135695-30-6
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate and 2,4,5,6-tetrachloro-1,3-benzenedicarbonitrile	Maneb 12427-38-2	136298-13-0
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with hydroxylamine hydrochloride	Zineb 12122-67-7	138729-30-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N,2-dihydroxybenzamide	Zineb 12122-67-7	138729-34-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5-[(4-chlorophenyl)methylene]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol	Maneb 12427-38-2	139387-84-1

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5-[(4-chlorophenyl)methylene]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol	Zineb 12122-67-7	139387-85-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(3,4-dichlorophenyl)-N'-(2,2,2-trichloro-1-hydroxyethyl)urea	Zineb 12122-67-7	139499-97-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Maneb 12427-38-2	139640-89-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Zineb 12122-67-7	139640-89-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 5-methyl-1,2,4-triazolo[3,4-b]benzothiazole	Maneb 12427-38-2	140208-51-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 5-methyl-1,2,4-triazolo[3,4-b]benzothiazole	Zineb 12122-67-7	140208-51-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5-[(4-chlorophenyl)methylene]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	141537-00-0
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5-[(4-chlorophenyl)methylene]-2,2-dimethyl-1-(1H-1,2,4-triazol-1-ylmethyl)cyclopentanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	141537-00-0
Acetamide, N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)-, mixt. with copper chloride oxide hydrate and metiram	Metiram 9006-42-2	141695-45-6
DL-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester, mixt. with copper chloride oxide hydrate and metiram	Metiram 9006-42-2	141695-44-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and propyl [3-(dimethylamino)propyl]carbamate monohydrochloride	Maneb 12427-38-2	141827-37-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and propyl [3-(dimethylamino)propyl]carbamate monohydrochloride	Zineb 12122-67-7	141827-37-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dibenzoyl peroxide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	141963-63-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dibenzoyl peroxide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	141963-63-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dibenzoyl peroxide	Maneb 12427-38-2	141963-64-6
Peroxide, dibenzoyl, mixt. with metiram	Metiram 9006-42-2	141963-65-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dibenzoyl peroxide	Zineb 12122-67-7	141963-66-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with $\alpha$ -(2-chlorophenyl)- $\alpha$ -(4-chlorophenyl)-5-pyrimidinemethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	142044-14-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with $\alpha$ -(2-chlorophenyl)- $\alpha$ -(4-chlorophenyl)-5-pyrimidinemethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	142044-14-2



Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, cyano(3-phenoxyphenyl)methyl 4-chloro- $\alpha$ -(1-methylethyl)benzeneacetate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	142169-89-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, cyano(3-phenoxyphenyl)methyl 4-chloro- $\alpha$ -(1-methylethyl)benzeneacetate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	142169-89-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate], [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Maneb 12427-38-2	142194-95-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with dimethyl [1,2-phenylenebis(iminocarbonothioyl)]bis[carbamate], [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and sulfur	Zineb 12122-67-7	142194-95-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, (E)-dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl phosphate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	142212-29-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper chloride oxide hydrate, (E)-dimethyl 1-methyl-3-(methylamino)-3-oxo-1-propenyl phosphate and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	142212-29-1
Acetamide, N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)-, mixt. with metiram	Metiram 9006-42-2	142783-40-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 6-(4-chlorophenyl)-2-(2-pentynyl)-3(2H)-pyridazinone and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	143048-23-1
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 6-(4-chlorophenyl)-2-(2-pentynyl)-3(2H)-pyridazinone and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	143048-23-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide	Zineb 12122-67-7	143199-19-3
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with S-ethyl dipropylcarbamoithioate	Zineb 12122-67-7	143199-20-6
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide and S-ethyl dipropylcarbamoithioate	Zineb 12122-67-7	143199-21-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	143313-06-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-chloro-N-(ethoxymethyl)-N-(2-ethyl-6-methylphenyl)acetamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	143313-06-8
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and S-ethyl dipropylcarbamoithioate	Maneb 12427-38-2	143313-07-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and S-ethyl dipropylcarbamoithioate	Zineb 12122-67-7	143313-07-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 3-(isononyloxy)-1-propanamine methyl phosphonate	Zineb 12122-67-7	145332-14-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S)) <sub>2</sub> S <sub>2</sub> )	Maneb 12427-38-2	145871-21-2

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	145871-21-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 5-methyl-3(2H)-isoxazolone	Maneb 12427-38-2	146522-58-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and 5-methyl-3(2H)-isoxazolone	Maneb 12427-38-2	146522-58-9
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N-methylcyclopropanecarboximidamide	Zineb 12122-67-7	147262-06-4
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N-methylethanimidamide	Zineb 12122-67-7	147360-85-8
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N-methylmethanimidamide	Zineb 12122-67-7	147360-90-5
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-[(6-chloro-3-pyridinyl)methyl]-N'-cyanopropanimidamide	Zineb 12122-67-7	147360-92-7
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N-cyclopropylethanimidamide	Zineb 12122-67-7	147390-38-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (±)-α-[2-(4-chlorophenyl)ethyl]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	147630-55-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (±)-α-[2-(4-chlorophenyl)ethyl]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	147630-55-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 4,5-dichloro-2-octyl-3(2H)-isothiazolone	Maneb 12427-38-2	147762-34-3
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with (T-4)-bis(dimethylcarbomodithioato-S,S')zinc and 4,5-dichloro-2-octyl-3(2H)-isothiazolone	Maneb 12427-38-2	147762-35-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper oxide (Cu <sub>2</sub> O) and 2-octyl-3(2H)-isothiazolone	Maneb 12427-38-2	147762-38-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper oxide (Cu <sub>2</sub> O) and 4,5-dichloro-2-octyl-3(2H)-isothiazolone	Maneb 12427-38-2	147762-40-1
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with copper oxide (Cu <sub>2</sub> O) and 4,5-dichloro-2-octyl-3(2H)-isothiazolone	Zineb 12122-67-7	147789-26-2
Zinc, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with 2-bromo-2-nitro-1,3-propanediol	Zineb 12122-67-7	148073-08-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-2-(4-methoxy-2-methylphenyl)imidazo[1,2-a]pyridine-8-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	148802-75-9
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)-, mixt. with N-(cyano-2-thienylmethyl)-2-(4-methoxy-2-methylphenyl)imidazo[1,2-a]pyridine-8-carboxamide and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	148802-75-9

Table 2. CAS Number List of Mixtures that Contain the Individually Listed Chemicals Maneb, Metiram, Nabam, and Zineb		
Mixture Name	Component	Mixture CAS Number
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 4-ethoxy-6-methyl-N-phenyl-2-pyrimidinamine	Maneb 12427-38-2	149264-27-7
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 4-ethynyl-6-methyl-N-phenyl-2-pyrimidinamine	Maneb 12427-38-2	149264-28-8
Zinc, [[1,2-ethanediybis [carbomodithioato]](2-)]-, mixt. with 4-ethoxy-6-methyl-N-phenyl-2-pyrimidinamine	Zineb 12122-67-7	149264-30-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 4,6-dimethyl-N-phenyl-2-pyrimidinamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Maneb 12427-38-2	149264-32-4
Manganese, [[1,2-ethanediybis [carbomodithioato]](2-)]-, mixt. with 4,6-dimethyl-N-phenyl-2-pyrimidinamine and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	149264-32-4
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarbox-amide, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Maneb 12427-38-2	149294-96-2
Manganese, [[1,2-ethanediybis [carbomodithioato]](2-)]-, mixt. with 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide, [[1,2-ethanediybis[carbomodithioato]](2-)]zinc and tetramethylthioperoxydicarbonic diamide ((Me <sub>2</sub> N)C(S) <sub>2</sub> S <sub>2</sub> )	Zineb 12122-67-7	149294-96-2
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride hydroxide (Cu <sub>2</sub> Cl(OH) <sub>3</sub> ) and [[1,2-ethanediybis [carbomodithioato]](2-)]zinc	Maneb 12427-38-2	149855-18-5
Manganese, [[1,2-ethanediybis [carbomodithioato]](2-)]-, mixt. with copper chloride hydroxide (Cu <sub>2</sub> Cl(OH) <sub>3</sub> ) and [[1,2-ethanediybis[carbomodithioato]](2-)]zinc	Zineb 12122-67-7	149855-18-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, compd. with [[1,2-ethanediybis[carbomodithioato]](2-)]zinc (1:1), mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide	Maneb 12427-38-2	149922-80-5
Manganese, [[1,2-ethanediybis [carbomodithioato]](2-)]-, compd. with [[1,2-ethanediybis [carbomodithioato]](2-)]zinc (1:1), mixt. with N-(2,6-dimethylphenyl)-2-methoxy-N-(2-oxo-3-oxazolidinyl)acetamide	Zineb 12122-67-7	149922-80-5
Manganese, [[1,2-ethanediybis[carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis[carbomodithioato]]zinc and 6-methyl-1,3-dithiol[4,5-b]quinoxalin-2-one	Maneb 12427-38-2	150389-52-9
Manganese, [[1,2-ethanediybis [carbomodithioato]](2-)]-, mixt. with copper chloride oxide hydrate, [[1,2-ethanediybis [carbomodithioato]](2-)]zinc and 6-methyl-1,3-dithiol[4,5-b]quinoxalin-2-one	Zineb 12122-67-7	150389-52-9