



TOXICS RELEASE INVENTORY

Copper Phthalocyanine Compounds Excluded from the Reporting Requirements under the Copper Compounds Category on the EPCRA section 313 list

Section 313 of 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. The current EPCRA section 313 toxic chemical list contains over 650 chemicals and chemical categories.

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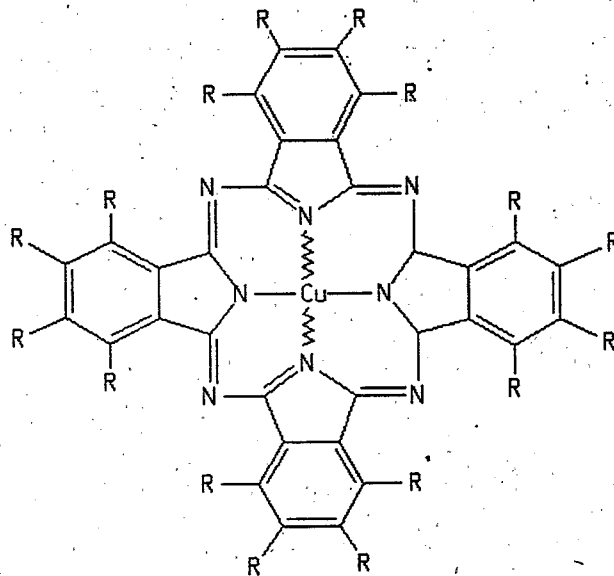
Section 1. Introduction

On April 11, 1995 (60 FR 18361), EPA finalized the deletion of all copper phthalocyanine compounds substituted with only hydrogen and/or chlorine and/or bromine from the copper compounds category of the list of toxic chemicals under section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). This deletion is described at 40 CFR 372.65, and is effective April 11, 1995. This deletion relieves facilities of their obligation to report releases that occurred during 1994 and all future years for these copper phthalocyanine compounds. Therefore, the last reports facilities were required to file for these compounds would have been July 1, 1994, covering releases that occurred during calendar year 1993.

This guidance document provides the chemical structure that defines those copper phthalocyanine compounds that were delisted as well as a list of copper phthalocyanine compounds substituted with only hydrogen and/or chlorine and/or bromine. While EPA believes this list to be a complete list of the copper phthalocyanine compounds that have Chemical Abstracts Service (CAS) numbers, there may be compounds without CAS numbers which meet the chemical structure but are not included in the list. In this case, the chemical would still be excluded from the EPCRA section 313 reporting requirements.

Section 2. Chemical Structure for Delisted Copper Phthalocyanine Compounds

EPA is providing the following structure to assist facilities in determining if a specific copper phthalocyanine compound has been delisted from the copper compounds category under Section 313 of EPCRA.



where R = H and/or Br and/or Cl only.

Section 3. Listing of Copper Phthalocyanine Pigments that Meet the Delisting Criteria

EPA is providing the following list of CAS numbers and chemical names to aid the regulated community in determining whether they need to report under EPCRA section 313 for copper phthalocyanine compounds substituted with only hydrogen and/or chlorine and/or bromine. However, this list is not exhaustive. There may be copper phthalocyanine compounds that are covered by the above chemical structure but are not listed below. In this case, the copper phthalocyanine compound would be excluded from the EPCRA section 313 copper compounds category and therefore, the EPCRA section 313 reporting requirements.

Bromo and Chloro Substituted Copper Phthalocyanine Dyes

CHLORO substituted

1) Monochloro

Chemical Name	CAS NO.
Copper, [C-chloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	12239-87-1
Copper, [2-chloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-2)-	147-13-7

2) Dichloro

Copper, [C,C-dichloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	35254-77-4
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3) Trichloro

Copper, [C,C,C-trichloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	29719-96-8
Copper, [3,10,17-trichloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-2)-	14319-83-6

4) Tetrachloro

Copper, [2,9,16,23-tetrachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-, homopolymer	115157-60-3
Copper, [1,8,15,22-tetrachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	108564-32-7
Copper, [C,C,C,C-tetrachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	27614-71-7
Copper, [2,9,16,23-tetrachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-,	16040-69-0

5) Pentachloro

Copper, [pentachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	62726-15-2
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6) Hexachloro

Copper, [hexachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	85650-74-4
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7) Heptachloro

Copper, [heptachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	85665-46-9
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8) Octachloro

Copper, [2,3,9,10,16,17,23,24-octachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,(SP-4-1)-	28451-28-7
Copper, [1,4,8,11,15,18,22,25-octachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,(SP-4-1)-	28107-34-8
Copper, [1,3,8,10,15,17,22,24-octachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,	23970-06-1
Copper, [C,C,C,C,C,C,C,C-octachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	1330-37-6

9) Nonachloro

Copper, [nonachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	85650-75-5
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10) Decachloro

Copper, [decachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	85237-49-6
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11) Undecachloro

Copper, [undecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	94277-09-5
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12) Dodecachloro

Copper, [dodecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	94277-10-8
Copper, [1,2,3,8,9,10,15,16,17,22,23,24-dodecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-,(SP-4-1)-	35084-41-4

13) Tridecachloro

Copper, [tridecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	94277-11-9
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14) Tetradecachloro

Copper, [tetradecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	94277-12-0
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15) Pentadecachloro

Copper, [pentadecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	52418-31-2
Copper, [1,2,3,4,8,9,10,11,15,16,17,18,22,23,24-pentadecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	31235-28-6

16) Hexadecachloro

Copper, [1,2,3,4,8,9,10,11,15,16,17,18,22,23,24,25-hexadecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-, homopolymer	60400-08-0
Copper, [1,2,3,4,8,9,10,11,15,16,17,18,22,23,24,25-hexadecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	14832-14-5

17) Unspecified chloro

Copper, chloro[29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	94701-72-1
Polychloro copper phthalocyanine	1328-53-6

BROMO substituted**1) Monobromo**

Copper, [C-bromo-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	65584-99-8
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2) Dibromo

Copper, [C,C-dibromo-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	27614-77-3
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3) Tetrabromo

Copper, [C,C,C,C-tetrabromo-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	35254-78-5
Copper, [2,9,16,23-tetrabromo-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	16049-08-4

4) Octabromo

Copper, [C,C,C,C,C,C,C,C-octabromo-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	27614-76-2
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5) Dodecabromo

Copper, [C,C,C,C,C,C,C,C,C,C,C,C-dodecabromo-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	148919-95-3
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6) Pentadecabromo

Copper, [C,C,C,C,C,C,C,C,C,C,C,C,C,C,C-pentadecabromo-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	26747-96-6
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7) Hexadecabromo

Copper, [1,2,3,4,8,9,10,11,15,16,17,18,22,23,24,25-hexadecabromo-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	25397-26-6
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BROMOCHLORO substituted

Copper, [tridecabromotrichloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	85237-51-0
Copper, [heptabromomonochloro-29H,31H-222phthalocyaninato(2-)-N29,N30,N31,N32]-	85237-50-9
Copper, [24-bromo-1-chloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	76947-45-0
Copper, [C-brpmo-C-chloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	71888-63-6
Copper, [nonabromotetrachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	68630-79-5
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, brominated chlorinated	68512-13-0
Copper, [1,2,3,9,10,16,17,23,24-nonabromo-11,25-dichloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	68425-85-4

Copper, [nonabromopentachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	67939-30-4
Copper, [C,C,C,C,C,C,C,C-octabromo-C,C,C,C,C,C,C,C-octachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	66085-74-3
Copper, [C-bromo-C,C,C,C,C,C,C,C,C,C,C,C,C-tetradecachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-	49796-84-1
Copper, [1,3,8,16,18,24-hexabromo-2,4,9,10,11,15,17,22,23,25-decachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-2)-	14302-13-7
Copper, [2,3,10,16,17,24-hexabromo-1,8,9,15,22,23-hexachloro-29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (SP-4-1)-	72854-36-5