



TOXICS RELEASE INVENTORY

List of Toxic Chemicals within the Strychnine and Salts Category

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, 1994 EPA added nearly 300 chemicals and chemical categories to the list of toxic chemicals subject to reporting under EPCRA section 313, 42 U.S.C 11001. These additions are described at 59 FR 61432, and were effective January 1, 1995 for reports due July 1, 1996. The strychnine and salts category was included in these additions. At the time of the addition, EPA indicated that the Agency would develop, as appropriate, interpretations and guidance that the Agency determines are necessary to facilitate accurate reporting for these categories. This document constitutes such guidance for the strychnine and salts category.

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 strychnine and salts category is subject to the one percent *de minimis* concentration. Thus, mixtures that contain members of this category at concentrations equal to or in excess of one percent should be factored into threshold and release determinations.

Any compound that has a strychnine or a strychnine salt component is reportable. 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 strychnine and salts category. However, this list is not exhaustive. If a facility is manufacturing, processing, or using a chemical that has a strychnine or a strychnine salt component, they must report to TRI, even if this chemical does not appear on the following list.

Who Must Report

A plant, factory, or other 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 used during the calendar year that trigger reporting requirements.

If a facility *manufactures* or *imports* any of the listed toxic chemicals, the threshold quantity will be:

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

If a facility *processes* any of the listed toxic chemicals, the threshold quantity will be:

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

If a facility *otherwise uses* 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 over the calendar year.

Section 2. CAS Number List of Chemicals within the Strychnine and Salts Category

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 strychnine and salts category. However, this list is not exhaustive. If a facility is manufacturing, processing, or using a chemical that has a strychnine or a strychnine salt component, they must report to TRI, even if this chemical does not appear on the following list.

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one	Strychnine	57-24-9
Strychnidin-10-one, sulfate (2:1)	—	60-41-3
Strychnidin-10-one, mononitrate	—	66-32-0
Strychnidin-10-one,2,2'-difluoro-5,5'-dimethyl-6,6'-dinitro[1,1'-biphenyl]-3,3'-dicarboxylate (2:1)	—	337-37-1
Strychnidin-10-one, 5,5'-dichloro-2,2',6,6'-tetrafluoro[1,1'-biphenyl]-3,3'-dicarboxylate (2:1)	—	337-38-2
Strychnidin-10-one, mono(2'-fluoro-5'-methyl-6-nitro[1,1'-biphenyl]-2-carboxylate)	—	337-39-3
Strychnidin-10-one, 2,2'-difluoro-6,6'-dimethoxy[1,1'-biphenyl]-3,3'-dicarboxylate (1:1)	—	466-68-2
Strychnidin-10-one, phosphate (1:1)	Strychnine phosphate	509-42-2
Butyric acid, 2-amino-4-sulfo-, compound with strychnine (1:1)	—	1061-27-4
Strychnine, compound with tetrahydrogen hexacyanoferrate(4-) (1:1), monohydrate	—	1300-19-2
Strychnidin-10-one, compound with 1,2,3-propanetriol mono(dihydrogenphosphate) (2:1), dodecahydrate	Strychnine glycerophosphate hexahydrate	1301-26-4
Strychnidin-10-one, compound with 1,2,3-propanetriol mono(dihydrogenphosphate) (2:1)	Strychnine glycerophosphate	1323-31-5
Strychnidin-10-one, monohydrochloride	—	1421-86-9
Acetic acid, thiobis(p-bromophenyl)-, compound with strychnine (1:2), (±)-	—	3113-18-6
Glutamic acid, N-benzoyl-2-(phenylmethyl)-, (+)-, compound with strychnine-10-one (1:2)	—	3183-17-3

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnine, mono(2-acetyl-1-benzyloctahydro-4a-hydroxy-6-oxo-8a(1H)-isoquinolinecarboxylate)	—	3508-71-2
Acetic acid, (4-biphenylsufinyl)-, compound with strychnine (1:), (+)-	—	3708-20-1
Acetic acid, (2-biphenylsufinyl)-, compound with strychnine (1:1), (+)-	—	4109-15-3
Acetic acid, sulfinylbis[(p-bromophenyl)-, (+)-, compound with strychnine (1:2)	—	4850-67-3
2-Naphthaleneglycolic acid, 5,6,7,8-tetrahydro-, (S)-, compound with strychnine (1:1)	—	5803-81-6
Strychnine, mono(3,4-dichlorobenzenesulfonate)	—	5890-10-8
Strychnidin-10-one, 2-hydroxy-1,2,3-propanetricarboxylate	Strychnine, citrate	5936-16-3
Strychnine, p-(benzyloxy)benzenesulfonate	—	6056-14-0
Strychnidin-10-one, compound with arsenic acid (H ₃ AsO ₄) (1:1), dihydrate	—	6101-00-4
Strychnidin-10-one, sulfate (1:1), dihydrate	—	6101-01-5
Strychnidin-10-one, cis-1,2,2-trimethyl-1,3-cyclopentanedicarboxylate (1:1)	Strychnine camphorate	6101-02-6
Strychnidin-10-one, 2-hydroxy-1,2,3-propanetricarboxylate (1:1)	Strychnine, citrate (1:1)	6101-03-7
Strychnidin-10-one, monohydrochloride, dihydrate	Strychnine hydrochloride dihydrate	6101-04-8
Strychnidin-10-one, mono(2-hydroxypropanoate)	Strychnine lactate	6101-05-9
Strychnidin-10-one, mono(2-hydroxybenzoate)	Strychnine salicylate	6101-06-0
Strychnidin-10-one, monopentanoate	Strychnine valerate	6101-07-1
Strychnidin-10-one, phosphate (1:1), dihydrate	Strychnine phosphate dihydrate	6101-09-3
Strychnidin-10-one, mono(4-hydroxybenzenesulfonate)	Strychnine p-phenol sulfonate	6101-42-4
Strychnidin-10-one, monoformate	Strychnine formate	6158-11-8
Strychnidin-10-one, monophosphinate, dihydrate	Strychnine hypophosphite dihydrate	6158-12-9
Strychnidin-10-one, monohydrobromide, monohydrate	Strychnine hydrobromide monohydrate	6416-01-9
D-Gluconic acid, compound with strychnidin-10-one (1:1), pentahydrate	Strychnine gluconate pentahydrate	6416-06-4

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one, compound with chromic acid (H ₂ Cr ₂ O ₇) (1:1)	Strychnine dichromate	6424-33-5
Strychnidin-10-one, monoacetate	Strychnine acetate	6487-51-0
Strychnidin-10-one, monohydriodide, monohydrate	Strychnine hydriodide monohydrate	6533-70-6
Strychnine, hexafluoroantimonate(1-) (1:1)	—	7636-75-1
Strychnine, 2,2'-difluoro-5,5'-dimethyl-4,4'-dinitro-3,3'-biphenyldicarboxylate (2:1)	—	7649-63-0
Iron strychnine citrate	—	8052-88-8
Strychnidin-10-one, phosphonite (1:1)	—	10103-26-1
Strychnidin-10-one, [R-(R*,R*)]-2,3-dihydroxybutanedioate	Strychnine, tartrate	10289-23-3
Strychnidin-10-one, compound with arsenic acid (H ₃ AsO ₄) (1:1)	Strychnine arsenate	10476-82-1
Strychnidin-10-one, mono(dimethylarsinate)	Cytostyl; Strychnine cacodylate	10476-87-6
Strychnine, bis[N-salicylideneglycinato(2-)]ferrate(1-)	—	12113-04-1
Strychnidin-10-one, cyclohexylsulfamate	—	14504-57-5
Strychnidin-10-one, phosphonite	—	14654-02-5
Strychnine, D- α -acetamido-6-carboxy-2-oxo-2H-pyran-3-propionate (1:1)	—	15912-16-0
Strychnidin-10-one, monophosphinate	Strychnine hypophosphite	16036-87-6
Strychnidin-10-one, compound with 2,4,6-trinitrophenol (1:1)	Strychnine picrate	16639-66-0
Strychnidin-10-one, (OC-6-11)-hexakis(cyano-C)cobaltate(3-) (3:1)	Strychnine hexacyanocobaltate	17034-55-8
Strychnidin-10-one, compound with 2,3-dihydroxypropyl dihydrogen phosphate (1:1)	Strychnine glycerophosphate (1:1)	17140-57-7
Strychnidin-10-one, [R-(R*,R*)]-2,3-dihydroxybutanedioate (1:1)	Strychnine, tartrate (1:1)	17140-58-8
Strychnine, mono[[[1-(triethylsilyl)ethyl]thio]acetate]	—	18880-53-0
Strychnine, compound with methyl acetate (1:1)	—	20050-14-0
Strychnidin-10-one, compound with (OC-6-22)-tetrakis(acetato-O)(ethanedinitrile-N,N')vanadate(1-) (1:1)	—	20219-29-8
Strychnine, (2,4-di-tert-butyl-6-iodophenoxy)acetate, (-)-	—	20328-78-3
Strychnine, monopotassium tris(oxalato)chromate(3-) (1:2)	—	20436-53-7

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnine, compound with trans-mono-(2-hydroxycyclooctyl) phthalate (1:1), (-)-	—	21423-08-5
Strychnidin-10-one, sulfate	—	21800-13-5
Strychnine, (3-dibenzofuranylsulfinyl)acetate	—	22214-62-6
Strychnine, mono(6-hydroxy-2-naphthalenesulfonate)	—	22725-06-0
Strychnine, mono(6-hydroxy-2-naphthalenesulfonate) benzenesulfonate(ester)	—	22733-74-0
Strychnine, mono[(±)-(7-bromo-1-naphthyl)sulfinyl]acetate], (+)-	—	23181-49-9
Strychnine, compound with O,O,S-trimethyl phosphorodithioate (1:1)	—	23637-34-5
Strychnine, mono[(2-phenanthrylsulfinyl)acetate], (-)-	—	23660-44-8
Strychnine, thiosulfate (2:1)	—	24046-61-5
Rhodate (1-), [[N-(carboxymethyl)-N'-(2-hydroxyethyl)-N,N'-ethylenediglycinato](3-)]chloro-, hydrogen, compound with strychnine (1:1)	—	26061-47-2
Strychnidin-10-one, mono[(+)-3-amino-5-[(dimethylamino)carbonyl]-2,4,6-triiodobenzoate]	—	26190-91-0
Strychnidin-10-one, (OC-6-11)-diamminetetrakis(thiocyanato-N)chromate(1-)	Strychnine reineckate	27498-36-8
Strychnine, tris(oxalato)chromate(3-) (3:1), (+)-	—	28376-22-9
Strychnine, mono(cis-1,2,cis-1,3-o-meth-3-yl phthalate]	—	29362-83-2
Strychnidin-10-one, compound with (S)-α-methylbenzene acetate	—	33069-04-4
Strychnidin-10-one, mono[(S)-α-(formylamino) benzeneacetate]	N-Formyl-L-phenylglycine strychnine salt	36123-69-0
Strychnidin-10-one, mono[(1α,2β,3α,4αβ,8αβ)-(-)3-(acetyloxy)-1,2,3,4,4a,7,8,8a-octahydro-2-methoxy-7-oxo-1-naphthalenecarboxylate]	—	36547-79-2
Strychnidin-10-one, 3-amino-5-[(dimethylamino)carbonyl]-2,4,6-triiodobenzoate	—	37441-37-5
Strychnidin-10-one, stereoisomer of 2,2',2"-[methylidynetris(thio)]tris[propanoate] (2:1)	—	38004-58-9
Strychnidin-10-one, monobenzoate	Strychnine monobenzoate	39089-11-7

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one, mono(2-chlorobenzoate)	Strychnine mono (o-chlorobenzoate)	39089-12-8
Strychnidin-10-one, mono(3-chlorobenzoate)	Strychnine mono (m-chlorobenzoate)	39089-13-9
Strychnidin-10-one, mono(4-chlorobenzoate)	Strychnine mono (p-chlorobenzoate)	39089-14-0
Strychnidin-10-one, mono(2-bromobenzoate)	Strychnine mono (o-bromobenzoate)	39089-15-1
Strychnidin-10-one, mono(3-bromobenzoate)	Strychnine m-bromobenzoate	39089-16-2
Strychnidin-10-one, mono(4-bromobenzoate)	Strychnine mono (p-bromobenzoate)	39089-17-3
Strychnidin-10-one, compound with β -D-galactofuranose 1-(dihydrogenphosphate) (2:1)	—	39698-25-4
Strychnidin-10-one, (\pm)-9,10-dihydro-9,10-ethenoanthracene-1,5-dicarboxylate (1:1)	—	40443-27-4
Chromate(1-), bis(pyridine)tetrakis(thiocyanato-N)-, hydrogen, compound with strychnidin-10-one (1:1)	—	40701-06-2
Strychnidin-10-one, monothiocyanate	—	41239-66-1
Strychnidin-10-one, compound with 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-3-methyl-6-(1-methylethyl)phenol] S,S-dioxide	—	41528-82-9
Strychnidin-10-one, mono[(+)-(3-dibenzofuranylsulfinyl)acetate]	—	42138-26-1
Strychnidin-10-one, mono[(-)-(3-dibenzofuranylsulfinyl)acetate]	—	42138-27-2
Strychnidin-10-one, mono[(+)-(4-dibenzofuranylsulfinyl)acetate]	—	42138-30-7
D-Gluonic acid, compound with strychnidin-10-one (1:1)	—	49719-63-3
Strychnidin-10-one, sulfate (1:1)	—	49719-64-4
Strychnidin-10-one, mono(3,4-dimethylbenzenesulfonate)	—	50727-49-6
Strychnidin-10-one, mono(2,5-dimethylbenzenesulfonate)	—	50727-50-9
Strychnidin-10-one, mono(4-hydroxy-2,3-dimethylbenzenesulfonate)	—	50727-51-0
Strychnidin-10-one, mono(2-hydroxy-4,6-dimethylbenzenesulfonate)	—	50727-52-1
Strychnidin-10-one, mono[2,6-dimethyl-3-[(phenylsulfonyl)oxy]benzenesulfonate]	—	50727-53-2

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one, mono[4-[[2,4-dimethylphenyl)sulfonyl]oxy]benzenesulfonate]	—	50727-54-3
Strychnidin-10-one, compound with 4-sulfophenyl 3,4-dimethylbenzenesulfonate (1:1)	—	50727-55-4
Strychnidin-10-one, mono[3,5-dimethyl-4-[[4-methylphenyl)sulfonyl]oxy]benzenesulfonate]	—	50727-56-5
Strychnidin-10-one, mono[(R)-(2-dibenzofuranyl)sulfinyl]acetate]	—	52340-19-9
Strychnidin-10-one, monohydrobromide	—	52714-88-2
Strychnidin-10-one, compound with 2,4,6-trinitrophenol	Strychnine picrate	52714-96-2
Strychnidin-10-one, monohydriodide	Strychnine hydriodide	52748-69-3
Strychnidin-10-one, mono[bis(N,N-dimethylbenzenamine)tetrakis(thiocyanato-N)chromate(1-)]	—	53021-66-2
Strychnidin-10-one, sulfate (2:1), compound with (OC-6-11)-tris(1,10-phenanthroline-N1,N10)zinc(2+) sulfate (1:1:1)	—	54387-02-9
Strychnidin-10-one, mono[(S)-2-hydroxytetracosanoate]	L-Cerebronic acid, strychnine salt	54563-88-1
Strychnidin-10-one, mono[(S)- α -methylbenzeneacetate]	—	54667-63-9
Strychnidin-10-one, compound with molybdenum hydroxide nitrate oxide	Strychnine molybdonitric acid	56797-39-8
Strychnidin-10-one, sulfate (1:1), pentahydrate	—	58299-26-6
Strychnidin-10-one, monohydrobromide, dihydrate	—	58299-27-7
Strychnidin-10-one, compound with 2,4-dihydro-5-methyl-4-nitro-2-(4-nitrophenyl)-3H-pyrazol-3-one (1:1)	—	59863-84-2
Strychnidin-10-one, sulfate (2:1), pentahydrate	Strychnine sulfate pentahydrate	60491-10-3
Strychnidin-10-one, selenate (2:1), pentahydrate	—	60498-30-8
Strychnidin-10-one, mono(trifluoroacetate)	Strychnine trifluoroacetate	60723-49-1
Osmate(2-), hexabromo-, (OC-6-11)-, dihydrogen, compound with strychnidin-10-one (1:2)	Strychnine, hexabromoosmate(IV)	62459-34-1
Strychnidin-10-one, compound with trans-(\pm)-1,2-cyclopentanediybis(hydrogen sulfate) (2:1)	—	63261-47-2
Strychnidin-10-one, mono[(R)-3-formyl-2,2-dimethyl-4-thiazolidinecarboxylate]	—	63284-32-2

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Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one, mono[(±)-3-formyl-2,2-dimethyl-4-thiazolidinecarboxylate]	—	63284-33-3
Strychnidin-10-one, (-)-9, 10-dihydro-9,10-ethenoanthracene-1,5-dicarboxylate	—	64666-35-9
Strychnidin-10-one, (R)-3,3'-dimethyl[1,1'-binaphthalene]-2,2'-diylbis(dihydrogen phosphate)	—	65337-82-8
Strychnidin-10-one, compound with (R)-3,3'-dimethyl[1,1'-binaphthalene]-2,2'-diol	—	65355-10-4
Chromate(1-), diamminetetakis(thiocyanato-N)-, (OC-6-11)-, hydrogen, compound with strychnidin-10-one (1:1)	—	66063-57-8
Strychnidin-10-one, hexaiodotellurate(2-) (2:1)	—	66083-89-4
Strychnidin-10-one, mono[(OC-6-11)-bis (benzenamine) tetrakis(thiocyanato-N)chromate(1-)]	—	66083-91-8
Strychnidin-10-one, mono[bis(4-methylbenzenamine)tetrakis(thiocyanato-N)chromate(1-)]	Benzenamine, 4-methyl-, chromium complex compound with strychnine	66083-92-9
Tellurate(2-), hexachloro-, dihydrogen, compound with strychnidin-10-one (1:1)	Strychnidin-10-one, hexachlorotellurate(2-) (1:1)	67028-97-1
Strychnidin-10-one, compound with (S)-4-hydroxy-2,6-dimethyldinaphtho[2,1-d:1',2'-f][1,3,2]dioxaphosphepin 4-oxide (1:1)	—	67267-34-9
Strychnidin-10-one, mono[(S)-1,3-dihydro-α-[(2-methoxy-4-nitrophenyl)methyl]-1,3-dioxo-2H-isoindole-2-acetate]	—	70266-85-2
Strychnidin-10-one, mono[(R)-1,3-dihydro-α-[(2-methoxy-4-nitrophenyl)methyl]-1,3-dioxo-2H-isoindole-2-acetate]	—	70266-86-3
Strychnidin-10-one, conjugate monoacid	Strychnine conjugate acid	73732-52-2
L-Tyrosine, N-acetyl-α-(hydroxymethyl)-3-methoxy-O-methyl-, compound with strychnidin-10-one (1:1)	—	73800-74-5
D-Tyrosine, N-acetyl-α-(hydroxymethyl)-3-methoxy-O-methyl-, compound with strychnidin-10-one (1:1)	—	73800-76-7
Strychnidin-10-one, phosphinate	—	74577-96-1
Strychnidin-10-one, compound with ethyl 2-[3,5-dibromo-4-hydroxyphenyl](3,5dibromo-4-oxo-2,5-cyclohexadien-1-ylidene)methyl]benzoate (1:1)	—	76201-36-0
Strychnidin-10-one, mono[tetraphenylborate(1-)]	—	76445-05-1
Strychnidin-10-one, mononitrite	Strychnine nitrite	78686-40-5

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one, mono[(1S-trans)-5,8,13,13a-tetrahydro-9,10-dimethoxy-8-oxo-6H-benzo[g]-1,3-benzodioxolo[5,6-a]quinolizine-13-carboxylate	—	79055-72-4
Strychnidin-10-one, mono[(6S-cis)-6,6a,11,14-tetrahydro-8,9-dimethoxy-14-oxo-12H-benzo[a]-1,3-benzodioxolo[4,5-g]quinolizine-6-carboxylate]	—	79082-07-8
Strychnidin-10-one, [(2 α ,3 α ,4 α)-(+)-4-(carboxymethyl)tetrahydro-5-oxo-2,3-furandicarboxylate] (1:1)	—	79726-19-5
Strychnidin-10-one, (+)-[(4-bromophenyl)sulfinyl]acetate (1:1)	—	80214-20-6
Strychnidin-10-one, compound with methylarsonate (1:1)	Strychnine methylarsonate	80879-64-7
Strychnidin-10-one, mono[(R)-[[4-bromophenyl)methyl]sulfinyl]acetate]	—	81431-41-6
Strychnidin-10-one, (R)-methylbutanedioate	—	83450-60-6
Strychnidin-10-one, mono[[1R-(1 α ,2 β ,3 α)]-3- methyl-2-(nitromethyl)-5-oxocyclopentaneacetate]	—	86087-04-9
Strychnidin-10-one, mono[(-)-phenyl(triethylsilyl)methyl,2-benzenedicarboxylate	—	86393-05-7
Strychnidin-10-one, mono[(+)-phenyl(triethylsilyl)methyl,2-benzenedicarboxylate]	—	86393-07-9
Strychnidin-10-one, mono[(-)-[[2-bromophenyl)methyl]sulfinyl]acetate]	—	87852-56-0
Strychnidin-10-one, mono[(+)-[(2-bromophenyl)sulfinyl]acetate]	—	87852-72-0
Strychnidin-10-one, compound with 5-nitro-2,4,6(1H,3H,5H)-pyrimidinetrione	—	88154-35-2
L-Alanine, N-benzoyl-, compound with strychnidin-10-one (1:1)	—	92818-46-7
L-Proline, 5-oxo-, compound with strychnidin-10-one (1:1)	—	93940-83-1
Strychnidin-10-one, mono[(T-4)-tetraiodobismuthate(1-)]	—	96322-46-2
Strychnidin-10-one, mono[[R-(R*,S*)]- α -(1,3-benzodioxol-5-hydroxymethyl)-1,3-dihydro-1,3-dioxo-2H-isoindole-2-acetate]	—	96561-37-4
Strychnidin-10-one, monok[[S-(R*,R*)]- α -(1,3-benzodioxol-5-ylhydroxymethyl)-1,3-dihydro-1,3-dioxo-2H-isoindole-2-acetate]	—	96561-42-1
Strychnidin-10-one, (S)- α -(acetylamino)-2-dibenzofuranpropanoate	—	96680-59-0

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one, mono[(S)-[[3-bromophenyl)methyl]sulfinyl]acetate]	—	98392-15-5
L-Alanine, N-benzoyl-, compound with strychnidin-10-one (1:1), dihydrate	—	98748-11-9
Strychnidin-10-one, mono[(OC-6-21-A)-[[N,N'-1,2-ethanediy]bis[N-(2-carboxyethyl)-β-alaninato]](4-)-N,N',O,O',ON,ON']rhodate(1-)]	—	99031-66-0
Strychnine, [(ethylenedinitrilo)tetraacetato]nickelate(II)	—	99771-32-1
Strychnidin-10-one, arsenite (1:1)	—	100258-44-4
Strychnidin-10-one, compound with 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-3-methylphenol]S,S-dioxide (1:1)	—	101686-74-2
Strychnidin-10-one, compound with 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-3-methylpheno] S,S-dioxide (2:1)	—	101912-89-4
Strychnidin-10-one, compound with 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2,6-dibromo-3-methylphenol]S,S-dioxide (3:1)	—	101912-97-4
Propionic acid, 2-mercapto-, dimethyldithiocarbamate, compound with strychnine	—	103070-73-1
Strychnidin-10-one, compound with 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[2-bromo-3-methyl-6-(1-methylethyl)phenol S,S-dioxide (1:1)	Bromothymol blue compound with strychnine (1:1)	103792-92-3
Strychnine, chloro[hydrogen (ethylenedinitrilo) tetraacetato]rhodate (III)	—	105022-71-7
Strychnine, [(ethylenedinitrilo)tetraacetato]vanadate(III)	—	105022-72-8
2-Naphthaleneglycolic acid, 5,6,7,8-tetrahydro-, compound with strychnine	—	105403-46-1
Acetic acid, [(1-bromo-2-naphthyl)sulfinyl]-, compound with strychnine	—	105521-40-2
Acetic acid, (2-biphenylsulfinyl)-, compound with strychnine	—	105841-43-8
Acetic acid, (4-biphenylsulfinyl)-, compound with strychnine	—	105841-44-9
Acetic acid, (fluoren-2-ylsulfinyl)-, compound with strychnine	—	105841-70-1
Benzoic acid, 4-[(5,6-dimethoxy-3-oxo-4-phthalanyl)oxy]-3-iodo, compound with strychnine	—	105948-45-6
D-ribo-Hexonic acid, 3-deoxy-, strychnine salt	—	106216-71-1

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnine, [(ethylenedinitrilo)tetraacetato]rhodate(III)	—	106234-23-5
1-Naphthoic acid, 8-(o-tert-butylphenyl)-, compound with strychnine	—	106385-26-6
4-Biphenylcarboxylic acid, 2'-tert-butyl-2-nitro-, compound with strychnine	—	106424-31-1
2-Biphenylcarboxylic acid, 2'-tert-butyl-, compound with strychnine	—	106424-34-4
3-Biphenylcarboxylic acid, 2',6-di-tert-butyl-, compound with strychnine	—	106424-52-6
1-Naphthaleneacetic acid, 1 α ,2,3,4,4 α ,5,6,7,8,8 α -decahydro-6 β -hydroxy-5,5,8 β -trimethyl-2-oxo-, methyl ester, hydrogen phthalate, compound with strychnine	—	107354-69-8
Cyclopropanecarboxylic acid, 3-(2-cyanopropenyl)-2,2-dimethyl-, compound with strychnine (1:1)	—	107559-52-4
Acetic acid, thiobis[(p-bromophenyl)-], compound with strychnine	—	107601-04-7
Acetic acid, sulfinylbis[(p-bromophenyl)-], compound with strychnine	—	107601-05-8
Acetic acid, thiobis[phenyl-], compound with strychnine (1:2)	—	107601-06-9
Acetic acid, sulfinylbis[phenyl-], compound with strychnine	—	107601-07-0
3-Pyrazoline-4-sulfonic acid, 2,3-dimethyl-5-oxo-1-phenyl-, compound with strychnine	—	107989-62-8
Strychnine, hexachloroosmate(IV)	—	108171-69-3
Strychnine, [(ethylenedinitrilo)tetraacetato]cuprate(II)	—	108374-34-1
Strychnine, hexacyanochromate(III)	—	108486-13-1
Strychnidin-10-one, mono[(+)-1,3-dihydro- β -1-naphthalenyl-1,3-dioxo-2H-isoindole-2-butanoate]	—	108827-18-5
Strychnine, hexathiocyanatochromate(III)	—	108987-70-8
Strychnidin-10-one, compound with hydrogen sulfide (H ₂ S ₆) (2:1)	—	111536-63-1
Strychnidin-10-one, (+)-7,7'-dimethoxy[4,4'-bi-1,3-benzodioxole]-5,5'-dicarboxylate	—	111897-22-4
Strychnidin-10-one, (-)-7,7'-dimethoxy[4,4'-bi-1,3-benzodioxole]-5,5'-dicarboxylate	—	111897-24-6
Acetic acid, trichloro-, strychnine salt	—	114793-33-8

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one, mono[(S)-5-[(4-ethyl-2,5-dihydro-3-methyl-5-oxo-1H-pyrrol-2-yl)methyl]-4-methyl-1H-pyrrole-2-carboxylate]	—	115976-57-3
Strychnidin-10-one, mono[(R)-5-[(4-ethyl-2,5-dihydro-3-methyl-5-oxo-1H-pyrrol-2-yl)methyl]-4-methyl-1H-pyrrole-2-carboxylate]	—	115976-60-8
Strychnidin-10-one, [S-(R*,R*)]-2,3-dihydroxybutanedioate (1:1), trihydrate	Strychnine (S,S)-tartrate trihydrate	116708-31-7
Strychnidin-10-one, [R-(R*,R*)]-2,3-dihydroxybutanedioate (2:1), hexahydrate	Strychnine (R,R)-bitartrate hexahydrate	116728-44-0
L-Ascorbic acid, compound with strychnidin-10-one (1:1)	—	117552-81-5
3-Pyridinol, 2,6-dinitro-, compound with strychnine, nitrate	—	119569-79-8
Hexanedioic acid, 3,4-dihydroxy-, compound with strychnine (1:2)	—	120023-42-9
Xylopyranose, 1-phosphate, compound with strychnine (1:1), β-D-	—	120334-15-8
2,12-Dioxabicyclo[11.2.2]heptadeca-13,15,16-triene-14-carboxylic acid, compound with strychnine	—	120579-55-7
Caronic acid, compound with strychnine (1:2)	—	120858-00-6
2,2'-Biphenyldisulfonic acid, 4,4',6,6'-tetramethyl-, compound with strychnine (1:2)	—	120883-94-5
Acetic acid, (4-methoxy-1-naphthylsulfinyl)-, compound with strychnine	—	121499-75-0
2-Thiopheneglycolic acid, compound with strychnine	—	121526-88-3
Hydratropic acid, strychnine salt	—	121527-65-9
Caronic acid, compound with strychnine (1:1)	—	121543-62-2
Propiolic acid, compound with strychnine	—	121543-86-0
α-D-Xylopyranose, 1-phosphate, salt with strychnine (1:2)	—	121707-90-2
β-D-Xylopyranose, 1-phosphate, salt with strychnine	—	122147-77-7
α-D-Xylopyranose, 1-phosphate, salt with strychnine	—	122147-78-8
[1,1'-Binaphthalene]-2,2'-disulfonic acid, compound with strychnine (1:2)	—	122361-60-8
Strychnidin-10-one, mono [[OC-6-33-A-[R-(R*,R*)]]-[ethanedioato(2-)-O,O']][[N,N'-1,2-ethanediybis(glycinato)](2-)-N,N',O,O']chromate(1-)	Glycine, N,N'-1,2-ethanediybis-, chromium complex, compound with strychnine	122564-98-1

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnidin-10-one, mono[OC-6-13-C-[R-(R*,R*)]]-[[N,N'-1,2-ethanediylbis[glycinato]](2-)-N,N',O,O']propanedioate(2-)-O,O']chromate(1)]	Glycine, N,N'-1,2-ethanediylbis-, chromium complex, compound with strychnine; Propanedioic acid, chromium complex, compound with strychnine	122619-87-8
Androst-5-en-18-oic acid, 17 β -(carboxycarbonylacyl)-11 β -hydroxy-3-oxo-, γ -lactone, cyclic 3-(ethylene acetal), compound with strychnine	—	122764-64-1
Strychnidin-10-one, mono[(R)-(2-phenoxyphenyl)sulfinyl]acetate]	—	123121-12-0
Strychnidin-10-one, mono[(-)-bromochlorofluoroacetate]	—	123266-76-2
Strychnidin-10-one, mono[(+)-bromochlorofluoroacetate]	—	123289-26-9-
Strychnidin-10-one, mono(α -hydroxybenzeneacetate)	—	123457-64-7
Strychnidin-10-one, mono(α -oxobenzeneacetate)	—	123468-24-6
1 α -Cyclohexanecarboxylic acid, 3 α ,4 α ,5 α -trihydroxy, compound with strychnine (1:1)	—	123807-71-6
Strychnine, compound with 4,4a,4b,5,6,7,8,8a,9,10-decahydro-5,8-dihydroxy-4amethyl-2(3H)-phenanthrone acid phthalate	—	123937-38-2
Glycine, N-(phenylsulfonyl)-N-(2,4,6-trimethyl-3-pyridyl)-, strychnine salt	—	123937-46-2
1,2-Dithiepane-3,7-dicarboxylic acid, compound with strychnine	—	124108-56-1
Phthalic acid, α -ethyl-p-(p-methoxyphenyl)benzyl ester, strychnine salt	—	124136-47-6
Strychnidin-10-one, monohydrochloride, hydrate (2:3)	Strychnine hydrochloride sesquihydrate	126590-09-8
Strychnidin-10-one, mono[(OC-6-21-A)-[[N,N'-(2-hydroxy-1,3-propanediyl)bis[N-(carboxymethyl)glycinato]](4-)[cobaltate(1-)], hydrate (2:3)	—	126924-31-0
Strychnine, complex with zinc thiocyanate	—	127620-33-1
Strychnine, complex with mercury thiocyanate	—	127620-35-3
Strychnine, molybdoarsenate	—	128662-88-4
Strychnine, phosphomolybdate	—	128662-89-5

Listing by CAS Number of Each Individual Chemical within the Strychnine and Salts Category		
Collective Index Name	Other Name(s)	CAS Number
Strychnine, complex with Co thiocyanate	—	128735-34-2
Strychnine, cyanocadmate	—	129035-03-6
Strychnine, molybdonitrate	—	129218-48-0
Strychnidin-10-one, tetracosamolybdoxododecaoxo[μ12-tetrahydroxyborato(5-)-O:O:O:O':O':O':O":O":O":O":O":O":O":O":O":O"]dodecatungstate (5-)(4:1)	Borate(1-), tetrahydroxy-, tungsten complex, compound with strychnine	130555-51-0
Strychnidin-10-one, mono[(-)-2-[[4-nitrophenyl)methyl]sulfinyl]benzoate]	—	131223-26-2
Strychnidin-10-one, compound, with monoethyl 9,10-dihydro-9,10-ethenoanthracene-11,12-dicarboxylate (1:1)	—	132335-57-0
Strychnidin-10-one, mono[(±)- bromochlorofluoroacetate]	—	133764-14-4
Strychnidin-10-one, compound with [R-(R*,R*)]-diethyl [(hydroxymethoxyphosphinothioyl)thio]butanedioate (1:1)	—	141263-98-1
Strychnidin-10-one, compound with [R-(R*,S*)]-diethyl [(hydroxymethoxyphosphinothioyl)thio]butanedioate (1:1)	—	141264-00-8
Strychnidin-10-one, compound with [S-(R*,S*)]-diethyl [(hydroxymethoxyphosphinothioyl)thio]butanedioate (1:1)	—	141264-02-0
Strychnidin-10-one, compound with [S-(R*,R*)]-diethyl [(hydroxymethoxyphosphinothioyl)thio]butanedioate (1:1)	—	141264-04-2
Strychnidin-10-one, mono[(+)-2-[[4-methylphenyl)methyl]sulfinyl]benzoate]	—	147282-84-6
Strychnidin-10-one, compound with 4-[(2-hydroxy-1-naphthalenyl)azo]-1-naphthalenesulfonic acid monosodium salt	Acid Red 88-strychnine compound	148559-96-0
Strychnidin-10-one, compound with 7-hydroxy-8-(1-naphthalenylazo)-1,3-naphthalenedisulfonic acid disodium salt	Acid Red 44-strychnine compound	148559-97-1
Strychnidin-10-one, compound with 7-hydroxy-8-[(4-sulfo-1-naphthalenyl)azo]-1,3,6-naphthalenetrisulfonic acid trisodium salt	Acid Red 18-strychnine compound	148559-98-2
Strychnidin-10-one, compound with 7-hydroxy-8-[(4-sulfo-1-naphthalenyl)azo]-1,3,6-naphthalenetrisulfonic acid tetrasodium salt	Acid Red 41-strychnine compound	148559-99-3
Strychnidin-10-one, mono[(OC-6-21-C)-[2-[bis(carboxymethyl)amino]-1-[[bis(carboxymethyl)amino)methyl]ethyl pentanoato(4-)]cobaltate(1-)], hexahydrate	—	158646-92-5

Section 3. CAS Number List of Mixtures within the Strychnine and Salts Category

EPA is providing the following list of CAS numbers and chemical names for mixtures that contain a strychnine or a strychnine salt component. This list will aid the regulated community in determining whether they need to report for the strychnine and salts category. However, this list is not exhaustive. If a facility is manufacturing, processing, or using a mixture that contains a strychnine or a strychnine salt component, they must report to TRI, even if this chemical does not appear on the following list. Threshold calculations for the strychnine and salts category should account only for the percentage of the strychnine or the strychnine salt component contained in the mixture.

Mixtures Containing Strychnine or Strychnine Salts		
Mixture Name	Strychnine Component	Mixture CAS Number
Strychnidin-10-one, 2-hydroxy-1,2,3-propanetricarboxylate, mixture with (8 α ,9R)-6'-methoxycinchonan-9-ol iron salt	Strychnine, citrate 5936-16-3	8062-13-3
Yohimban-16-carboxylic acid, 17-hydroxy-, methyl ester, (16 α ,17 α)-, mixture with [2R-[2R*(4R*,8R*)]]-3,4-dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-1-benzopyran-6-yl acetate,(1 α ,5 α ,17 α)-17-hydroxy-1-methylandrostan-3-one, magnesium di-3-pyridinecarboxylate and strychnidin-10-one mononitrate	Strychnidin-10-one, mononitrate 66-32-0	8067-17-2
L-Ascorbic acid, mixture with 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methylthiazolium chloride, 1,2,3-propanetriolmono(dihydrogen phosphate) sodium salt, riboflavin and strychnidin-10-one phosphate (1:1)	Strychnine phosphate 509-42-2	37333-45-2
Strychnidin-10-one, mononitrate, mixture with 2-aminoethylcarbamimidothioate dihydrobromide and 5-methoxy-1H-indole-3-ethanaminemonohydrochloride	Strychnidin-10-one, mononitrate 66-32-0	51484-87-8
L-Ascorbic acid, mixture with 3-[(4-amino-2-methyl-5-pyrimidinyl)methyl]-5-(2-hydroxyethyl)-4-methylthiazolium chloride monohydrochloride and strychnidin-10-one mononitrate	Strychnidin-10-one, mononitrate 66-32-0	52539-51-2
Strychnidin-10-one, mixture with 3,7-dihydro-1,3,7-trimethyl-1H-purine-2,6-dione, (1 α ,2 α β ,3 β ,6 β ,6 α β ,8 α S*,8 β β ,9R*)-hexahydro-2a-hydroxy-9-(1-hydroxy-1-methylethyl)-8b-methyl-3,6-methano-8H-1,5,7-trioxacyclopenta[ij] cycloprop[a]azulene-4,8(3H)-dione, (1 α ,2 α β ,3 β ,6 β ,6 α β ,8 α S*,8 β β ,9R*)-hexahydro-2a-hydroxy-8b-methyl-9-(1-methylethenyl)-3,6-methano-8H-1,5,7-trioxacyclopenta[ij] cycloprop[a]azulene-4,8(3H)-dione and 6,7,8,9-tetrahydro-5H-tetrazolo[1,5-a]azepine	Strychnine 57-24-9	55659-55-7

Mixtures Containing Strychnine or Strychnine Salts		
Mixture Name	Strychnine Component	Mixture CAS Number
Strychnidin-10-one, mononitrate, mixture with 3,7-dihydro-1,3,7-trimethyl-1Hpurine-2,7-dione, (1 α ,2 α β ,3 β ,6 β ,6 α β ,8 α S*,8 β β ,9R*)-hexahydro-2a-hydroxy-9-(1-hydroxy-1-methylethyl)-8b-methyl-3,6-methano-8H-1,5,7-trioxacyclopenta[<i>ij</i>]cycloprop[<i>a</i>]azulene-4,8(3H)-dione, [1 α R-(1 α ,2 α β ,3 β ,6 β ,6 α β ,8 α S*,8 β β ,9R*)]-hexahydro-2a-hydroxy-8b-methyl-9-(1-methylethenyl)-3,6-methano-8H-1,5,7-trioxacyclopenta[<i>ij</i>]cycloprop[<i>a</i>]azulene-4,8(3H)-dione, sodium benzoate and 6,7,8,9-tetrahydro-5H-tetrazolo[1,5]azepine	Strychnidin-10-one, mononitrate 66-32-0	60181-70-6
Strychnidin-10-one, monohydrochloride, mixture with sodium hydrogenmethylarsonate	Strychnidin-10-one, monohydrochloride 1421-86-9	110541-80-5
Yohimban-16-carboxylic acid, 17-hydroxy-, methyl ester, monohydrochloride, (16 α ,17 α)-, mixture with strychnidin- 10-one mononitrate	Strychnidin-10-one, mononitrate 66-32-0	132271-09-1