

Safety Data Sheet (SDS) Review

The Pretreatment & Pollution Prevention Department (P3) of HRSD regulates all industrial discharges into the HRSD sanitary sewerage system. Part of the P3 regulatory oversight includes determining what chemicals/products are suitable for unrestricted discharge into the sanitary sewer system. Depending on the composition, it may be determined that a chemical/product is unsuitable for discharge and any industry wishing to discharge a chemical/product to the sanitary sewer must find a suitable replacement.

To facilitate SDS review, HRSD has identified groups of analytes that are of particular concern due to their potential to impact the sewerage system or the environment. These analytes are detailed in the lists below: “Zero” Discharge Pollutants, Toxic Organics, Restricted Compounds, Pollutants of Concern, and Per- and Polyfluoroalkyl Substances (PFAS).

Many SDSs do not provide one hundred percent (100%) of the ingredients in *Section 3. Composition/Information on Ingredients*. Often manufacturers do not include ingredients in an SDS for confidentiality and/or label ingredients as “proprietary”. In these cases, the industry or their chemical supplier is required to review all analytes/CAS Registry Numbers (CASRN) in the lists below.

Any analyte(s)/CASRN(s) from the HRSD lists identified as an ingredient of an SDS must be disclosed to HRSD for further evaluation or the chemical/product will not be authorized for unrestricted discharge into the sanitary sewer. If **none** of the analytes from the HRSD lists are ingredients, please complete and submit the Safety Data Sheet (SDS) Composition Certification Form below.

Please be advised that approval of a chemical/product for unrestricted discharge into the sanitary sewer system also involves evaluating other Sections of the SDS, which may include but are not limited to: pH, flashpoint, stability and reactivity, toxicological information, ecological information, etc.

Certification Statement Instructions:

The Safety Data Sheet (SDS) Composition Certification Form must be completed by a Chemical Manufacturer representative, not the industry seeking discharge approval. An individual form must be certified and submitted for each chemical/product reviewed. The form must identify the Chemical Manufacturer Company Name, Chemical/Product, Chemical Review Analyte Lists Version Date, and Company Representative Name (print and signature), Title and Date. The industry seeking discharge approval is responsible for submitting completed form(s) to HRSD, but an industry generated certification statement is not required at the time of submission.

HRSD “Zero” Discharge Pollutants

The following list, which may be amended periodically, includes pollutants that are known or suspected to be bioaccumulative and/or harmful to the environment. There may be no discharge of wastewater into the sewerage system that contain quantifiable concentrations (QL) of these chemicals as determined by EPA/HRSD approved methodologies. Waste mixing of any waste containing any parameter on this list over the QL is prohibited.

Analyte	CASRN	Synonyms
Aldrin – EPA 608.3: QL of 0.050 µg/L	309-00-2	
Aqueous Film Forming Foam		AFFF
Chlordane – EPA 608.3: QL of 2.0 µg/L	12789-03-6	(technical mixture and metabolites)
Dichlorodiphenyltrichloroethane – EPA 608.3: QL of 0.050 µg/L	50-29-3	DDT
Dibenzofurans - EPA 1613B: QL per the method (e.g. 10, 50, 100 pg/L)		
Tetrachlorodibenzofuran (TCDF)	51207-31-9	TCDF
Pentachlorodibenzofuran (PeCDF)	30402-15-4	PeCDF
Hexachlorodibenzofuran (HxCDF)	55684-94-1	HxCDF
Heptachlorodibenzofuran (HpCDF)	38998-75-3	HpCDF
Octachlorodibenzofuran (OCDF)	39001-02-0	OCDF
Dioxins - EPA 1613B: QL per the method (e.g. 10, 50, 100 pg/L)		
Tetrachlorodibenzo-p-dioxin (TCDD)	41903-57-5	TCDD
Pentachlorodibenzo-p-dioxin (PeCDD)	36088-22-9	PeCDD
Hexachlorodibenzo-p-dioxin (HxCDD)	34465-46-8	HxCDD
Heptachlorodibenzo-p-dioxin (HpCDD)	37871-00-4	HpCDD
Octachlorodibenzo-p-dioxin (OCDD)	3268-87-9	OCDD
Methoxychlor – 608.3 or SW8081B: QL of 0.100 µg/L	72-43-5	
Polychlorinated Biphenyls (Total PCBs) – EPA 1668A/1668B/or 1668C: QL of 5 pg/L		
PCB-1016	12674-11-2	Aroclor 1016
PCB-1221	11104-28-2	Aroclor 1221
PCB-1232	11141-16-5	Aroclor 1232
PCB-1242	53469-21-9	Aroclor 1242
PCB-1248	12672-29-6	Aroclor 1248
PCB-1254	11097-69-1	Aroclor 1254
PCB-1260	11096-82-5	Aroclor 1260
Pentachlorobenzene – EPA 8270D: QL of 5 µg/L	608-93-5	
Tributyltin – Analysis of Butyltins in Environmental Samples by M. Unger (1996): QL of 30 ng/L	36643-28-4	TBT
Trifluralin – SW8141 Extended or SW8081 Extended: QL of 0.2 µg/L	1582-09-8	

HRSD Toxic Organics

The following list, which may be amended periodically, contains specific toxic organic compounds having quantifiable values greater than 0.01 milligrams per liter.

Analyte	CASRN	Synonyms
1,1,1-Trichloroethane	71-55-6	
1,1,2,2-Tetrachloroethane	79-34-5	
1,1,2-Trichloroethane	79-00-5	
1,12-Benzoperylene	191-24-2	benzo(ghi)perylene
1,1-Dichloroethane	75-34-3	
1,1-Dichloroethylene	75-35-4	1,1-Dichloroethene
1,2,4-Trichlorobenzene	120-82-1	
1,2,5,6-Dibenzanthracene	53-70-3	Dibenzo(a,h)anthracene
1,2-Benzanthracene	56-55-3	benzo(a)anthracene
1,2-Dichlorobenzene	95-50-1	o-Dichlorobenzene
1,2-Dichloroethane	107-06-2	
1,2-Dichloropropane	78-87-5	Propylene chloride
1,2-Diphenylhydrazine	122-66-7	
1,3-Dichlorobenzene	541-73-1	m-Dichlorobenzene
1,4-Dichlorobenzene	106-46-7	p-Dichlorobenzene
11,12-Benzofluoranthene	207-08-9	benzo(k)fluoranthene
2,4,6-Trichlorophenol	88-06-2	
2,4-Dichlorophenol	120-83-2	2,4-DCP
2,4-Dimethylphenol	105-67-9	
2,4-Dinitrophenol	51-28-5	
2,4-Dinitrotoluene	121-14-2	2,4-DNT; Benzene
2,6-Dinitrotoluene	606-20-2	2,6-DNT
2-Chloroethyl Vinyl Ether (mixed)	110-75-8	Mixed acrolein
2-Chloronaphthalene	91-58-7	Naphthalene, 2-chloro-; 2-Chloronaphthalene; β -Chloronaphthalene; PCN 2
2-Chlorophenol	95-57-8	o-Chlorophenol
2-Nitrophenol	88-75-5	o-Nitrophenol
3,3'-Dichlorobenzidine	91-94-1	
3,4-Benzfluoranthene	205-99-2	benzo(b)fluoranthene
4,4'-DDD	72-54-8	p,p-TDE; Dichlorodiphenyldichloroethane
4,4'-DDE	72-55-9	p,p-DDX; Dichlorodiphenyldichloroethylene
4,6-Dinitro-o-cresol (DINIT)	534-52-1	4,6-Dinitro-2-methylphenol / 2-methyl-4,6-dinitrophenol
4-Bromophenyl phenyl ether	101-55-3	
4-Chlorophenyl phenyl ether	7005-72-3	
4-Nitrophenol	100-02-7	

Analyte	CASRN	Synonyms
Acenaphthene	83-32-9	Naphthyleneethylene
Acenaphthylene	208-96-8	
Acrolein	107-02-8	
Acrylonitrile	107-13-1	Cyanoethylene
Alpha-BHC	319-84-6	α -Hexachlorocyclohexane, alpha-Hexachlorocyclohexane, cyclohexane
Alpha-endosulfan	959-98-8	Endosulfan I; α -Endosulfan; Endosulfan A
Anthracene	120-12-7	green oil / paranaphthalene
Benzene	71-43-2	
Benidine	92-87-5	4,4'-Diaminodiphenyl
Benzo(a)pyrene	50-32-8	3,4-benzopyrene
Beta-BHC	319-85-7	β -hexachlorocyclohexane / beta-hexachlorocyclohexane
Beta-endosulfan	33213-65-9	Endosulfan II; β -Endosulfan; Endosulfan B
Bis(2-chloroethoxy)methane	111-91-1	
Bis(2-chloroethyl) ether	111-44-4	
Bis(2-chloroisopropyl)ether	39638-32-9	2,2'-Oxybis(1-chloropropane)
Bromodichloromethane	75-27-4	Dichlorobromomethane
Bromoform	75-25-2	Tribromomethane
Butyl benzyl phthalate	85-68-7	
Carbon tetrachloride	56-23-5	Tetrachloromethane
Chlorobenzene	108-90-7	Monochlorobenzene
Chloroform	67-66-3	Trichloromethane
Chlorodibromomethane	124-48-1	Dibromochloromethane
Chrysene	218-01-9	
cis-1,3-Dichloropropene	10061-01-5	1,3-Dichloropropylene / 1,3-Dichloropropene / trans-1,3-Dichloropropene
Delta-BHC	319-86-8	δ -Hexachlorocyclohexane
Di(2-ethylhexyl)phthalate	117-81-7	Bis(2-ethylhexyl) phthalate; Dioctyl phthalate
Dieldrin	60-57-1	
Diethyl phthalate	84-66-2	
Dimethyl phthalate	131-11-3	
Di-n-butyl phthalate	84-74-2	Dibutyl phthalate
Di-n-octyl phthalate	117-84-0	
Endosulfan sulfate	1031-07-8	
Endrin	72-20-8	
Endrin aldehyde	7421-93-4	
Ethyl Chloride	75-00-3	Chloroethane
Ethylbenzene	100-41-4	
Fluoranthene	206-44-0	
Fluorene	86-73-7	Diphenylenemethane
Heptachlor	76-44-8	
Heptachlor epoxide	1024-57-3	BHC-hexachloro-cyclohexane

Analyte	CASRN	Synonyms
Hexachlorobenzene	118-74-1	
Hexachlorobutadiene	87-68-3	
Hexachlorocyclopentadiene	77-47-4	
Hexachloroethane	67-72-1	
Indeno[1,2,3-cd]pyrene	193-39-5	2,3-o-phenylene pyrene
Isophorone	78-59-1	
Lindane	58-89-9	Gamma-BHC
Methyl bromide	74-83-9	Bromomethane
Methyl chloride	74-87-3	Chloromethane
Methyl Ethyl Ketone	78-93-3	MEK / 2-Butanone
Methyl Isobutyl Ketone	108-10-1	MIBK / 4-methyl-2-pentanone
Methylene Chloride	75-09-2	Dichloromethane
Naphthalene	91-20-3	Tar camphor
Nitrobenzene	98-95-3	
N-Nitrosodi-n-propylamine	621-64-7	Dipropylnitrosamine
N-Nitrosodiphenylamine	86-30-6	
N-nitrosodimethylamine	62-75-9	NDMA
Parachlorometa cresol	59-50-7	4-chloro-3-methylphenol / p-chloro-m-cresol / 4-Chloro-m-cresol
Pentachlorophenol	87-86-5	(PCP)
Phenanthrene	85-01-8	
Phenol	108-95-2	carbolic acid; hydroxybenzene; oxybenzene; monohydroxybenzene
Pyrene	129-00-0	
Tetrachloroethylene	127-18-4	Tetrachloroethene
Toluene	108-88-3	
Toxaphene	8001-35-2	
trans-1,2-Dichloroethene	156-60-5	1,2-Trans-dichloroethylene
Trichloroethylene	79-01-6	Trichloroethene
Vinyl Chloride	75-01-4	Chloroethylene
Xylene, Total	1330-20-7	Xylenes (ortho, meta, para isomers)

HRSD Restricted Compounds

The following list, which may be amended periodically, includes pollutants that have been identified as potentially harmful to the sewerage system or the environment.

Analyte	CASRN	Synonyms
8-Hydroxyquinoline	148-24-3	oxine
Allyl Alcohol	107-18-6	2-propenol
Allyl Chloride	107-05-1	
Allyl isothiocyanate	57-06-7	
Aromatic Hydrocarbons	63231-51-6	
Arsenic	7440-38-2	
Benzothiazole disulfide	120-78-5	
Cadmium	7440-43-9	
Carbon Disulfide	75-15-0	
Chromium	7440-47-3	
Copper	7440-50-8	
Cyanide	57-12-5	
Diallyl ether	557-40-4	Allyl ether
Dicyandiamide	461-58-5	
Diesel	68334-30-5	
Diguanide	56-03-1	Biguanide, metformin
Dithiooxamide	79-40-3	
Ethanol	64-17-5	
Ethylene Glycol	107-21-1	
Gasoline	86290-81-5	Gas, Fuel
Guanidine, carbonate	593-85-1	
Hexane	110-54-3	n-Hexane
Hydrazine	302-01-2	
Kerosene	8008-20-6	
Lead	7439-92-1	
Liquefied Petroleum Gas	106-97-8, 74-98-6	LPG, Butane, propane
Mercaptobenzothiazole	149-30-4	2-Mercaptobenzothiazole
Mercury	7439-97-6	
Methyl isothiocyanate	556-61-6	
Methylamine hydrochloride	593-51-1	Methylamine hydrochloride
Mineral Spirits	64475-85-0	paint thinner
Morpholine	110-91-8	

Analyte	CASRN	Synonyms
Naphtha	8030-30-6	Petroleum Naphtha
Nickel	7440-02-0	
o-Cresol	95-48-7	
Oil and Grease (SGT-HEM)		
p-Cresol	106-44-5	4-methylphenol
Petroleum Distillates		
Petroleum Ether	8032-32-6	
Petroleum Solvents		
Phenolic Compounds		
Potassium Thiocyanate	333-20-0	
Propylene Glycol	57-55-6	1,2-Propanediol; Methylethylene glycol; Monopropylene glycol
Silver	7440-22-4	
Skatole	83-34-1	
s-Methylthiuronium sulfate	867-44-7	S-Methylisothiurea hemisulfate
Sodium Azide	26628-22-8	
Sodium dimethyldithiocarbamate	128-04-1	
Sodium methyldithiocarbamate	137-42-8	Metham sodium
Stoddard Solvent	8052-41-3	
Tetramethylthiuram disulfide	137-26-8	
Thioacetamide	62-55-5	Ethanethioamide
Thiosemicarbazide	79-19-6	
Thiourea	62-56-6	
Trimethylamine	75-50-3	
Zinc	7440-66-6	

HRSD Pollutants of Concern (POC)

The following list, which may be amended periodically, includes pollutants that have been identified as potentially harmful to the sewerage system or the environment.

Analyte	CASRN	Synonyms
1,1,1,2-Tetrachloroethane	630-20-6	
1,1-Dichloropropene	563-58-6	
1,2,3-Trichlorobenzene	87-61-6	
1,2,3-Trichloropropane	96-18-4	
1,2,4-Trimethylbenzene	95-63-6	
1,3,5-Trimethylbenzene	108-67-8	Mesitylene
2,2-Dichloropropane	594-20-7	
Bromobenzene	108-86-1	
cis-1,2-Dichloroethene	156-59-2	
DBCP	96-12-8	1,2-Dibromo-3-Chloropropane
Dichlorodifluoromethane	75-71-8	
Ethylene Dibromide	106-93-4	EDB
Fluorotrichloromethane	75-69-4	Trichlorofluoromethane
Isopropylbenzene	98-82-8	Cumene
Methyl tert-Butyl Ether	1634-04-4	MTBE
Methylene Bromide	74-95-3	Dibromomethane
n-Butylbenzene	104-51-8	Butylbenzene
o-Chlorotoluene	95-49-8	2-Chlorotoluene
p-Chlorotoluene	106-43-4	4-Chlorotoluene
p-Isopropyltoluene	99-87-6	4-Isopropyltoluene / p-Cymene
Propylbenzene	103-65-1	n-Propylbenzene
sec-Butylbenzene	135-98-8	
Styrene	100-42-5	
tert-Butylbenzene	98-06-6	
4-Nonylphenol	104-40-5	
Alkylphenol Ethoxylates		APEs
Nonylphenol	25754-52-3	
Phenol, 4-nonyl-, branched	84852-15-3	
1,4-Dioxane	123-91-1	Diethylene dioxide
Bromide		
N-Nitrosomorpholine	59-89-2	NMOR

Per- and Polyfluoroalkyl Substances (PFAS)

US Environmental Protection Agency (EPA) Method 1633

The following list includes per- and polyfluoroalkyl substances (PFAS) quantifiable by EPA Method 1633.

Analyte	CASRN	Synonyms
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	763051-92-9	11Cl-PF3OUdS
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid	39108-34-4	8:2FTS
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid	757124-72-4	4:2FTS
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid	27619-97-2	6:2FTS
2H,2H,3H,3H-Perfluorooctanoic acid	914637-49-3	5:3FTCA
3-Perfluoroheptyl propanoic acid	812-70-4	7:3FTCA
3-Perfluoropropyl propanoic acid	356-02-5	3:3FTCA
4,8-Dioxa-3H-perfluorononanoic acid	919005-14-4	ADONA
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	756426-58-1	9Cl-PF3ONS
Hexafluoropropylene oxide dimer acid	13252-13-6	HFPO-DA
N-ethyl perfluorooctanesulfonamide	4151-50-2	NEtFOSA
N-ethyl perfluorooctanesulfonamidoacetic acid	2991-50-6	NEtFOSAA
N-ethyl perfluorooctanesulfonamidoethanol	1691-99-2	NEtFOSE
N-methyl perfluorooctanesulfonamidoacetic acid	2355-31-9	NMeFOSAA
N-methyl perfluorooctanesulfonamide	31506-32-8	NMeFOSA
N-methyl perfluorooctanesulfonamidoethanol	24448-09-7	NMeFOSE
Nonafluoro-3,6-dioxaheptanoic acid	151772-58-6	NFDHA
Perfluoro(2-ethoxyethane)sulfonic acid	113507-82-7	PFEESA
Perfluoro-3-methoxypropanoic acid	377-73-1	PFMPA
Perfluoro-4-methoxybutanoic acid	863090-89-5	PFMBA
Perfluorobutanesulfonic acid	375-73-5	PFBS
Perfluorobutanoic acid	375-22-4	PFBA
Perfluorodecanesulfonic acid	335-77-3	PFDS
Perfluorodecanoic acid	335-76-2	PFDA
Perfluorododecanesulfonic acid	79780-39-5	PFDoS
Perfluorododecanoic acid	307-55-1	PFDoA
Perfluoroheptanesulfonic acid	375-92-8	PFHpS
Perfluoroheptanoic acid	375-85-9	PFHpA
Perfluorohexanesulfonic acid	355-46-4	PFHxS
Perfluorohexanoic acid	307-24-4	PFHxA
Perfluorononanesulfonic acid	68259-12-1	PFNS

Analyte	CASRN	Synonyms
Perfluorononanoic acid	375-95-1	PFNA
Perfluorooctanesulfonamide	754-91-6	PFOSA
Perfluorooctanoic acid	335-67-1	PFOA
Perfluorooctansulfonic acid	1763-23-1	PFOS
Perfluoropentanoic acid	2706-90-3	PFPeA
Perfluoropentansulfonic acid	2706-91-4	PFPeS
Perfluorotetradecanoic acid	376-06-7	PFTeDA
Perfluorotridecanoic acid	72629-94-8	PFTTrDA
Perfluoroundecanoic acid	2058-94-8	PFUnA



Safety Data Sheet (SDS) Composition Certification

Chemical Manufacturer Company Name: _____

The SDS for _____ does not list one hundred percent (100%) of the ingredients in *Section 3. Composition/Information on Ingredients*.

To evaluate compatibility with the HRSD sewerage system, the manufacture must provide a comprehensive list of the missing ingredients OR certify that no analytes listed on the HRSD "Zero" Discharge Pollutants, HRSD Toxic Organics, HRSD Restricted Compounds, HRSD Pollutants of Concern (POC), and Per- and Polyfluoroalkyl Substances (PFAS) lists are present in any concentration by completing this form.

Please be advised that approval of a chemical/product for unrestricted discharge into the sanitary sewer system also involves evaluating other Sections of the SDS, which may include but are not limited to: pH, flashpoint, stability and reactivity, toxicological information, ecological information, etc., which may affect the approval of a chemical/product.

By signing below, I am certifying that I have reviewed the Chemical Review Analyte lists, Version Date _____, and confirmed **none** of the listed analytes are present in _____ in any concentration.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME _____
(Print)

NAME _____
(Signature)

TITLE _____ **DATE** _____