

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
(-)-Epinephrine	51-43-4	Adrenaline	Hazardous drug, hormone, neurotransmitter,	GHS Cat. 2 Acute toxicity	Therapeutic (NIOSH Table 2 (similar effects))	Chemical review not required, unless used as an experimental drug
(-)-Nicotine	54-11-5	L(-)-3-(N-Methyl)- $\alpha$ -pyrrolidyl)pyridin, (-)-1-Methyl-2-(3-pyridyl)pyrrolidine	Toxic chemical	Acute oral, dermal hazard	NIOSH Table 2 (similar effects)	
(+)-Muscarine	2303-35-7	(+)-Tetrahydro-4 $\beta$ -hydroxy-N,N,N,5 $\alpha$ -tetramethyl-2 $\alpha$ -furanmethanaminium chloride	hazardous chemical	GHS Cat. 1 acute toxicity (inhalation), GHS Cat. 2 (dermal)	NIOSH Table 2 (similar effects)	
(+)-Pilocarpine (hydrochloride)	54-71-7	Isopto Carpine, Sanpilo, Salageno	Hazardous drug	GHS Cat. 2 acute toxicity (oral and inhalation),	NIOSH Table 2 (similar effects)	
( $\pm$ ) Gossypol, from cotton seeds	303-45-7	2,2'-bis(8-Formyl-1,6,7-trihydroxy-5-isopropyl-3-methylnaphthalene	Carcinogen	GHS Cat. 2 carcinogen	Carcinogen	
( $\pm$ )-Nicotine	22083-74-5		Toxic chemical	Acute oral, dermal hazard	NIOSH Table 2 (similar effects)	
1,2-Dimethylhydrazine	306-37-6		Carcinogen	Carcinogenicity(Category 1B)	Carcinogen	
1,3 Propanesultone	1120-71-4		Carcinogen / toxic chemical	IARC Group 2A carcinogen, Neurological and behavior effects,	Carcinogen	
12-0-tetra-decanoylphorbol-13-acetate	16561-29-8	TPA, tetradecanoylphorbol acetate, tetradecanoyl phorbol acetate, and phorbol 12-myristate 13-acetate (PMA)	Carcinogen	potent tumor promoter	UCAR provided list - Carcinogen	
1-Methyl-3-nitro-1-nitrosoguanidine	70-25-7	Diazomethane precursorMNNGN-Methyl-N'-nitro-N-nitrosoguanidine	Carcinogen	Carcinogenicity(Category 1B),	Carcinogen	
1-methyl-4phenyl-1,2,3,4-tetrahydropyridine	28289-54-5	MPTP	Neurotoxic agent	Permanent symptoms of Parkinson's disease	MPTP	*MPTP produces irreversible lesions of the brain dopaminergic system involved in psychomotor functioning with symptoms closely resembling Parkinson's disease. Refer to detailed exposure control recommendations.
1-Nitrosopyrrolidine	930-55-2	NPYRN-Nitrosopyrrolidine	Carcinogen	Carcinogenicity(Category 2)	Carcinogen	
2,3,7,8-tetrachlorodibenz-o-p-dioxin (TCDD)	1746-01-6	TCDD, "Dioxin"	Carcinogen	IARC Group 1, teratogen, mutagen	Carcinogen	
2,4-Dinitrofluorobenzene	70-34-8	1-Fluoro-2,4-dinitrobenzene; DNF; Sanger's Reagent	hazardous chemical	GHS Specific target organ toxicity - repeated exposure(Category 2),Kidney	NIOSH Table 2 (similar effects)	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
2,4-Dinitrotoluene	121-14-2		Hazardous Drug	Germ cell mutagenicity(Category 2), H341Carcinogenicity(Category 1B), H350Reproductive toxicity(Category 2), H361Specific target organ toxicity -repeated exposure(Category 2),	<b>NIOSH Table 2 (similar effects)</b>	
2,6-Dinitrotoluene	606-20-2		Hazardous Drug	Germ cell mutagenicity(Category 2), H341Carcinogenicity(Category 1B), H350Reproductive toxicity(Category 2), H361Specific target organ toxicity -repeated exposure(Category 2)	<b>NIOSH Table 2 (similar effects)</b>	
2-acetylaminofluorene	53-96-3	2-Acetylaminofluorene	Carcinogen / toxic chemical	mutagen, OSHA - Carcinogen	<b>UCAR provided list - Carcinogen</b>	
2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine	105650-23-5	1-methyl-6-phenyl-1H-imidazo[4,5-b]pyridin-2-amine; PhIP;	Carcinogen	Carcinogenicity, Category 2	<b>Carcinogen</b>	
2-Amino-3-methylimidazo[4,5-f]quinoline	76180-96-6	3-methyl-3H-imidazo[4,5-f]quinolin-2-amine;	Hazardous Drug	Germ Cell Mutagenicity, Category 2 Carcinogenicity, Category 2 Specific Target Organ Toxicity (repeated exposure), Category 2	<b>NIOSH Table 2 (similar effects)</b>	
2-Nitropropane	79-46-9		Carcinogen	Germ cell mutagenicity(Category 2), Carcinogenicity(Category 1B)	<b>Carcinogen</b>	
3,3',4',4',5 Pentachlorobiphenyl	57465-28-8	PCB 126	Hazardous Chemical	STOT RE 2	<b>NIOSH Table 2 (similar effects)</b>	
3-Aminopropionitrile fumarate salt	2079-89-2	β-aminopropionitrile fumarate salt , BAPN fumarate salt, BAPN	Hazardous chemical, potential anti-neoplastic	GHS Cat 1B Reproductive hazard, teratogen	<b>NIOSH Table 1 (similar effects)</b>	<b>Special waste water requirements.</b> Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
3-[[[3-Amino-3-carboxypropyl)methoxyphos	334700-46-8	L-ABBA	GGT1 inhibitor, glutamate analog, possible neurotoxin, no tox data	Possible neurotoxin	<b>NIOSH Table 2 (similar effects)</b>	
4,4'-Methylenedianiline	101-77-9	4,4'-Diaminodiphenylmethane	Hazardous Drug	Acute dermal toxicityCategory 2Germ Cell MutagenicityCategory 1BCarcinogenicityCategory 1BSpecific target organ toxicity (single exposure)Category 1Specific target organ toxicity - (repeated exposure)Category 2	<b>NIOSH Table 2 (similar effects)</b>	

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Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
4-Aminobiphenyl	92-67-1	4-Biphenylamine 4-Biphenylamine 4-Phenylaniline	Carcinogen	Carcinogenicity(Category 1A)	Carcinogen	
4-Hydroxytamoxifen	68047-06-3	Afimoxifene, 4-OHT, Tamogel	Anti-neoplastic drug	GHS Cat. 2 Reproductive toxicity	NIOSH Table 1 (similar effects)	
4-nitroquinoline 1-oxide	56-57-5	4-Nitroquinoline 1-oxide	Carcinogen	Carcinogenicity (Category 1B), H350	Carcinogen	
4-Nonylphenol	104-40-5	p-Nonylphenol	Hazardous Chemical	Reproductive toxicity(Category 2), H361	NIOSH Table 3 (similar effects)	
4 $\alpha$ -Phorbol 12,13-didecanoate	27536-56-7	4 $\alpha$ -Phorbol 12-13-dicaprinate	Carcinogen	GHS Carcinogen Cat. 2, GHS Acute Toxicity Dermal Cat.2, Acute Toxicity Inhalation Cat. 1	NIOSH Table 2/Carcinogen	
5-bromo-2' deoxyuridine	59-14-3	BrdU, Broxuridine, Bromodeoxyuridine	Toxic chemical	GHS Cat. 2 Reproductive hazard, GHS Cat 1B germ cell mutagen	NIOSH Table 3 (similar effects)	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
5-chloro-2'-deoxyuridine	50-90-8	CldU	Toxic chemical	GHS Cat. 2 carcinogen	Carcinogen	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
5'-ethynyl-2'-deoxyuridine	61135-33-9	EdU	Toxic chemical	GHS Cat. 2 Reproductive hazard, GHS Cat 1B germ cell mutagen	NIOSH Table 3 (similar effects)	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
5-Fluoro-2`-deoxyuridine	50-91-9	FRDU, Floxuridine; FUDR; 2'-Deoxy-5-fluorouridine	Toxic chemical	GHS Cat 2 Germ cell mutagen	NIOSH Table 3 (similar effects)	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
5-Fluorouracil	51-21-8	2,4-Dihydroxy-5-fluoropyrimidine, 5FU	Carcinogen	Carcinogenicity, GHS Cat.2	NIOSH Table 1	
5-Iodo-2'-deoxyuridine	54-42-2	IdU	Toxic chemical	GHS Cat. 2 Reproductive hazard, GHS Cat 2 germ cell mutagen	NIOSH Table 3 (similar effects)	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
5 $\alpha$ -Dihydrotestosterone	521-18-6	DHT	Hazardous drug	GHS Cat. 3 carcinogen, GHS Cat. 1B Reproductive hazard	Carcinogen	
7,12-dimethylbenzyl(a)anthracene	57-97-6	DMBA	Carcinogen	GHS Cat 1B carcinogen	Carcinogen	
Abacavir	136470-78-5	Dihydrofolliculin	Anti-viral, hazardous drug	Reproductive hazard, FDA pregnancy category C, GHS carcinogenicity Cat. 2	NIOSH Table 2	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
Abiraterone	154229-19-3	17 $\beta$ -Estradiol	anti-neoplastic drug	Reproductive hazard	NIOSH Table 1	
Abraxane	NA	Albumin bound Paclitaxel	Anti-neoplastic drug	GHS Cat. 2 c Carcinogen, GHS Cat. 1B Reproductive toxicity, GHS Cat 2 Germ cell mutagen	Carcinogen	
Acetohydroxamic Acid	546-88-3	AHA	Hazardous Chemical	Reproductive toxicity(Category 1B)	NIOSH Table 3 (similar effects)	

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<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Acrylamide	79-06-1	Acrylic acid amide, 2-Propenamamide	Carcinogen, Reproductive Hazard	GHS Carcinogen Cat. 1B, GHS Reproductive toxicity Cat. 2	<b>Carcinogen</b>	
Actinomycin	50-76-0	D actinomycin	Hazardous drug, anti-neoplastic	Highly toxic, mutagen, FDA Prgnancy Cat. B	<b>NIOSH Table 1</b>	
Ado-trastuzumab emtansine	1018448-65-1	Kadcyla	antineoplastic Monoclonal Antibodies	Reproductive hazard	<b>NIOSH Table 1</b>	
Afatinib	850140-72-6	Gilotrif	anti-neoplastic drug	Reproductive hazard		
Aflatoxin B1	1162-65-8	2,3,6aR,9aS-tetrahydro-4-methoxy-1H,11H-cyclopenta[c]furo[3',2':4,5]furo[2,3-h][1]benzopyran1,11-dione; AFB1; HSDB 3453; NSC 529592;	Hazardous Drug	Acute Toxicity: Inhalation, Category 2 Acute Toxicity: Oral, Category 1 Acute Toxicity: Skin, Category 1 Germ Cell Mutagenicity, Category 1B Carcinogenicity, Category 1B	<b>NIOSH Table 2 (similar effects)</b>	
Alefacept	222535-22-0	Amevive	Immunosuppresant	increased risk of malignancies	<b>NIOSH Table 2</b>	
Alendronate (sodium hydrate)	121268-17-5	monosodium salt trihydrate (1:1:3); Adronat; Fosamax; G-704650; MK-21	Hazardous Drug	Acute Tox.(O) 4: H302Skin Corr. 2: H315Eye Damage 1: H318STOT (SE) 3: H335 H336Toxic Repro. 2: H361STOT (RE) 2: H373	<b>NIOSH Table 2 (similar effects)</b>	
Alprazolam	28981-97-7	XANAX; RALOZAM; XANOR; FRONTAL; ZOTRAN; TAFIL		GHS Repo 2	<b>NIOSH Table 3 (similar effects)</b>	
Altretamine	645-05-6	2,4,6-Tris(dimethylamino)-1,3,5-triazine, Hexalen	anti-neoplastic drug	Reproductive hazard	<b>NIOSH Table 1</b>	
Ambrisentan	177036-94-1		Hazardous drug	GHS Cat. 1A reproductive hazard	<b>NIOSH Table 3</b>	*Potential GHS Cat. 2 carcinogen.
Amitriptyline (hydrochloride)	549-18-8	Elavil, Saroten, Domical	Hazardous drug , tricyclic antidepressant	GHS Cat 2 Reproductive toxicity, GHS Cat 1 Specific target organ toxicity (single exposure)	<b>NIOSH Table 3 (similar effects)</b>	
Amsacrine	51264-14-3	acridinyl anisidide, m-AMSA	anti-neoplastic drug / carcinogen	IARC Group 2B	<b>NIOSH Table 1</b>	
Anastrozol	120511-73-1	Arimidex	anti-neoplastic drug	Reproductive hazard	<b>NIOSH Table 1</b>	
Anti-estrogen ICI 182,780	129453-61-8	Fulvestran	Hazardous drug	GHS Cat. 1B reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Antimycin A	1397-94-0		Hazardous Drug	Acute dermal toxicity Category 1	<b>NIOSH Table 2</b>	

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Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Apomorphine	58-00-4	Apokyn, Ixense, Spontane, Uprima	non-specific dopamine agonist	Genotoxic in vitro assays, FDA-pregnancy category C	<b>NIOSH Table 2</b>	Acute Toxicity: Inhalation, Category 4 Acute Toxicity: Oral, Category 4 Acute Toxicity: Skin, Category 4 Respiratory Sensitization, Category 1 Skin Sensitization, Category 1 - DOES NOT MEET HIGH HAZARD CATEGORIES
Aroclor 1254	11097-69-1	polychlorobiphenyl, PCB	Hazardous chemical	Target organ toxicity, reproductive effects	<b>NIOSH Table 2 (similar effects)</b>	
Aroclor 1221	11104-28-2	polychlorobiphenyl, PCB	Hazardous chemical	Repr. 2 H361 Suspected of damaging fertility or the unborn child. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.	<b>NIOSH Table 2 (similar effects)</b>	
Arsenic	7440-38-2		Hazardous Chemical	Carcinogenicity(Category 1B), H350	<b>Carcinogen</b>	
Arsenic trioxide	1327-53-3		anti-neoplastic drug / carcinogen	IARC Group 1, reproductive hazard	<b>NIOSH Table 1</b>	
Atrazine	1912-24-9	6-chloro-N2-ethyl-N4-(1-methylethyl)-1,3,5-triazine-2,4-diamine;		Specific Target Organ Toxicity (repeated exposure), Category 2	<b>NIOSH Table 2</b>	
Atropine	51-55-8	DL-Hyoscyamine, , Tropine tropate, Atropen, Daturin	Hazardous drug, Anticholinergic	GHS Cat. 2 Acute toxicity	<b>Therapeutic (NIOSH Table 2 (similar effects))</b>	Chemical review not required, unless used as an experimental drug
Axitinib	319460-85-0	Inlyta	anti-neoplastic drug	Reproductive hazard( teratogenic, embryotoxic, fetotoxic)	<b>NIOSH Table 1</b>	
Azacitidine	320-67-2	5-Azacitidine, Ladakamycin, Vidaza	anti-neoplastic drug / carcinogen	IARC 2A, reproductive hazard	<b>NIOSH Table 1</b>	
Azathioprine	446-86-6	AZA, Imuran	Hazardous drug		<b>NIOSH Table 2</b>	
Azoxymethane	25843-45-2	AOM	Hazardous chemical	IARC Group 2B Carcinogen, neurotoxin	<b>Carcinogen</b>	
Bacitracin	1405-87-4	Ayfiniv; Fortracin; Baciliquin	Hazardous drug	GHS Cat. 2 STOT kidney, liver. Skin sensitizer	<b>NIOSH Table 2 (similar effects)</b>	
Baclofen	1134-47-0		hazardous drug	GHS Cat. 1B Reproductive hazard, skin & respiratory sensitizer	<b>NIOSH Table 3 (similar effects)</b>	

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Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Belinostat	866323-14-0	Beleodaq, PDX101	anti-neoplastic drug	Reproductive hazard( teratogenic, embryotoxic, fetotoxic)	<b>NIOSH Table 1</b>	
Bendamustine	16506-27-7	Treanda	anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Benzene	71-43-2		Carcinogen	GHS carcinogen Cat. 1A, GHS germ cell mutagen Cat 1B	<b>Carcinogen</b>	
Benzo(a)pyrene	50-32-8		Hazardous chemical	IARC Group 2B carcinogen, reproductive hazard, sensitizer	<b>Carcinogen</b>	
Bevacizumab	216974-75-3	Avastin	Hazardous drug	Resproductive hazard, teratogen	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Bexarotene	153559-49-0	Targretin	anti-neoplastic drug	Reproductive hazard, FDA Pregnancy Cat. X	<b>NIOSH Table 1</b>	
Bicalutimide	90357-06-5	Casodex	anti-neoplastic drug	Reproductive hazard, FDA Pregnancy Cat. X	<b>NIOSH Table 1</b>	
Biomass smoke			unknown		<b>possible NIOSH Table 2 (similar effects)</b>	Copy text from previous UCAR letter discussing delivery device
Bis(2-ethylhexyl) phthalate	117-81-7	DEHP, Phthalic acid bis(2-ethylhexyl ester), 'Dioctyl' phthalate	Hazardous Chemical	Reproductive toxicity (Category 1B), H360	<b>NIOSH Table 3 (similar effects)</b>	
Bisphenol A	80-05-7	2,2-Bis(4-hydroxyphenyl) propane, 4,4'-Isopropylidenediphenol, BPA	hazardous chemical	GHS reproductive toxicity Cat. 2	<b>NIOSH Table 3 (similar effects)</b>	
Bleomycin	11056-06-7	Blenoxane	Anti-neoplastic drug	IARC Group 2B	<b>NIOSH Table 1</b>	
Blinatumomab		Blinicyto	Anti-neoplastic	neurological effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Bortezomib	179324-69-7	B-[(1R)-3-methyl-1-[(2S)-1-oxo-3-phenyl-2-[(2-pyrazinylcarbonyl)ar		Possible Reproductive effects (conflicting SDS's), STOT-RE	<b>NIOSH Table 1</b>	
Bosutinib	380843-75-4	Bosulif	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Botulinum toxins, all forms	93384-43-1	Botox	Neurotoxic agent	Organ toxicity at low doses, teratogenic and developmental effects	<b>Select agent. Contact EHS for required handling procedures and controls.</b>	[NIOSH list: Proposed update Feb. 2018 (Table 2)]
Brentuximab	914088-09-8	Adcetris	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Budesonide	51333-22-3	Pulmicort, Entocort	Hazardous drug	GHS reproductive hazard Cat. 2, GHS respiratory / skin sensitization Cat. 1	<b>NIOSH Table 2 (similar effects)</b>	

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Bupivacaine	38396-39-3	1-butyl-N-(2,6-dimethylphenyl)-2-piperidinecarboxamide	Hazardous Drug	Acute Tox. 2 H300 Fatal if swallowed. Acute Tox. 2 H310 Fatal in contact with skin. Acute Tox. 2 H330 Fatal if inhaled.	<b>NIOSH Table 3 (similar effects)</b>	
Buprenorphine SR		Suboxone, Bupenex, Subutex	Hazardous drug, analgesic		<b>Therapeutic</b>	Chemical review not required, unless used as an experimental drug
Busulfan	55-98-1	Myleran, Busulfex	Anti-neoplastic	IARC Group 1, reproductive hazard	<b>NIOSH Table 1</b>	
Cabazitaxel	183133-96-2	Jevtana, XRP-6258	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Cabozantinib	849217-68-1	Cabometyx, Cometriq	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Cadmium Chloride	10108-64-2		Hazardous chemical	GHS Cat. 1B carcinogen, reproductive hazard, genetic defects ( <i>Note: specifically regulated under OSHA 29CFR 1910.1027</i> )	<b>Carcinogen</b>	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group
Cadmium selenide	1306-24-7		hazardous chemical	IARC Group 1 carcinogen	<b>Carcinogen</b>	
Calcitriol	32222-06-3	9,10-secocholesta-5Z,7E,10(19)-triene-1.alpha.,3.beta.,25-triol; 1.alpha.,25-dihydroxy VitaminD3; 1,25(OH)2D3	Hazardous drug	GHS Cat 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Candesartan	145040-37-5	Candesartan cilexetil	Hazardous drug	GHS Cat 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Canagliflozin	842133-18-0		Hazardous drug	GHS Cat 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Cannabigerol	25654-31-3		Hazardous drug	GHS Cat 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Capecitabine	154361-50-9	Xeloda	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Captopril	62571-86-2	1-[(2S)-3-mercapto-2-methyl-1-oxopropyl]-L-proline; SA 333; SQ 14,225;	Hazardous drug	GHS Cat 1A Reproductive toxicity, Cat 1 Skin sensitizer	<b>NIOSH Table 3 (similar effects)</b>	check with HazWaste on whether leftover drinking water needs to be collected.
Carbamazepine	298-46-4	CBZ, Tegretol	Anticonvulsant	Reproductive effects, FDA Pregnancy Cat. D, Black Box warning: aplastic anemia, congenital malformation of offspring.	<b>NIOSH Table 2</b>	

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Carbaryl	63-25-4	1-(N-methylcarbamate)1-naphthalenol; Arylam; Dyna-carbyl; ENT 23969; NSC-27311; UC-7744; .alpha.-Naphthalenyl methyl Carbamate; .alpha.-Naphthyl methyl Carbama	Hazardous Chemical	Carcinogenicity, Category 2	<b>Carcinogen</b>	
Carbendazim	10605-21-7	Mercarazole	Hazardous chemical (fungicide)	Teratogenic and mutagenic effects	<b>NIOSH Table 3 (similar effects)</b>	
Carbon tetrachloride	56-23-5	CCl4, Tetrachloromethane	Hazardous Chemical	Acute Tox. 3; Skin Sens. 1B; Carc. 2; STOT RE 1; Aquatic Acute 3; Aquatic Chronic 3; Ozone 1;	<b>NIOSH Table 3 (similar effects)</b>	
Carboplatin	41575-94-4	Paraplatin	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Carfilzomib	868540-17-4	Kyprolis	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Carmustine	154-93-8	BCNU	Hazardous drug	Acute toxicity, GHS Cat. 1B carcinogen, reproductive hazard	<b>Carcinogen</b>	
Caspofungin	179463-17-3	Pneumocandin B0	Hazardous Drug	Toxic To Reproduction, Category	<b>NIOSH Table 3 (similar effects)</b>	
Celecoxib	169590-42-5	4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]-benzenesulfonamide; SC-58635; YM-177;	Hazardous Chemical	Reproductive Toxicity, GHS Cat. 1B; Acute Aquatic Tox., CAT.2; Cronic Acute Tox., Cat. 2	<b>NIOSH Table 3 (similar effects)</b>	
Ceritinib	1032900-25-6	Zykadia	Anti-neoplastic	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Chlorambucil	305-03-3	Leukeran	Hazardous drug	carcinogen, reproductive hazard, sensitizer	<b>NIOSH Table 1</b>	
Chloramphenicol	56-75-7	Pentamycin, Chloromycetin	Hazardous drug, antibiotic	IARC Group 2A, , FDA Pregnancy Cat. C	<b>NIOSH Table 2</b>	
Chlorpromazine hdrochloride	69-09-0	Largactil, Thorazine	Hazardous drug, Anti-psychotic	GHS Cat 2 Acute toxicity (inhalation)	<b>NIOSH Table 2</b>	
Chlorthalidone	77-36-1	2-chloro-5-(2,3-dihydro-1-hydroxy-3-oxo-1H-isoindol-1-yl)-benzenesulfonamide; Hygroton; NSC69200; Oradil; Thalitone®	Hazardous drug	GHS Cat. 1B reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	



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Cidofovir	113852-37-2	Vistide	Hazardous drug, ani-viral	Acute toxicity kidney	<b>NIOSH Table 2</b>	
Cigar Smoke			Toxic chemical	Acute oral, dermal hazard (nicotine)	<b>NIOSH Table 2 (similar effects)</b>	Copy text from previous UCAR letter discussing delivery device
Cigarette Smoke (Extract)		(CSE)	Toxic chemical	Acute oral, dermal hazard	<b>NIOSH Table 2 (similar effects)</b>	Copy text from previous UCAR letter discussing delivery device
Cilostazol	73963-72-1	6-[4-(1-cyclohexyl-1H-tetrazol-5-yl)butoxy]-3,4-dihydro-2(1H)-quinolinon; OPC 21; OPC 13013;Pletaal; Pletal	Hazardous Drug	Toxic To Reproduction, Category	<b>NIOSH Table 3 (similar effects)</b>	
Cimetidine	51481-61-9	SKF-92334, Tagamet	Hazardous drug	GHS Cat. 1B reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Cisplatin	15663-27-1	Cisplatinum, platamin, neoplatin, cismaplat, <i>cis</i> -diamminedichloridoplatinum(II) (CDDP)	Hazardous drug	IARC Group 2A, reproductive hazard	<b>NIOSH Table 1</b>	
Cladribine	4291-63-8	Leustatin, Mavenclad	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Clobazam	22316-47-8	Frisium, Urbanol, Onfi and Tapclob	Antiepileptic	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 3)</b>	
Clofarabine	123318-82-1	Clolar	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Clonidine	4205-91-8	Sigma C7897	hazardous drug	GHS Acute toxicity cat. 1 (inhalation)	<b>NIOSH Table 2 (similar effects)</b>	
Clozapine	5786-21-0	Clozoril, Leponex	Anti-psychotic	GHS Cat. 2 Reproductive toxicity, GHS Cat 2 Germ cell mutagen	<b>NIOSH Table 3 (similar effects)</b>	
Cobimetinib	934660-93-2	Cotellic	Anti-neoplastic	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Cocaine (hydrochloride)	53-21-4	L-Cocaine, Benzoylmethylecgonine	Hazardous drug	GHS Cat. 1B reproductive hazard, skin sensitizer	<b>NIOSH Table 3 (similar effects)</b>	
Colchicine	64-86-8	Colcrys, Mitigare	Hazardous drug	Teratogenic and developmental effects, FDA Pregnancy Cat. C	<b>NIOSH Table 3</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Conivaptan hydrochloride	168626-94-6	YM 087, Vaprisol	Hazardous drug	GHS Cat. 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Conotoxins		Short, paralytic alpha conotoxins			<b>Select agent. Contact EHS for required handling procedures and controls.</b>	
Crizotinib	877399-52-5	Xalkori	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Cycloheximide	66-81-9	Naramycin A, hizarocin, actidione, (Cyclohexamide)	Hazardous chemical, inhibits protein synthesis	Mutagen, Teratogenic and developmental effects.	<b>UCAR provided list - NIOSH Table 3 (similar effects)</b>	
Cyclopamine	4449-51-8	11-Deoxojervine; Jervin	Hazardous Drug	Germ Cell Mutagenicity, Category 2 Toxic To Reproduction, Category	<b>NIOSH Table 3 (similar effects)</b>	
Cyclophosphamide	50-18-0	Cytoxan, Lyophilized Cytoxan, Endoxan, Neosar, Procytox, Revimmune, Cycloblastin	Anti-neoplastic drug	IARC Group 1, reproductive hazard	<b>NIOSH Table 1</b>	
Cyclosporin	59865-13-3	Cyclosporin A, Neoral, Sandimmune	Hazardous drug	IARC Group 1, reproductive hazard	<b>NIOSH Table 2</b>	
Cytarabine	147-94-4	Cytosar-U, Depocyt, Cytosine arabinoside, Ara-C, Arabinofuranosyl cytidine	Anti-neoplastic drug	Reproductive hazard	<b>NIOSH Table 1</b>	
Dabrafenib	1195765-45-7	Tafinlar	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Dacarbazine	4342-03-4	DTIC, Imidazole caboxamide	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. C	<b>NIOSH Table 1</b>	
Dactinomycin	50-76-0	Actinomycin D	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
D-Amphetamine (hydrochloride)	1462-73-3	Dextroamphetamine, (S)-alpha-Benzylethylamine	Hazardous drug	GHS Cat. 1 Acute toxicity	<b>NIOSH Table 2 (similar effects)</b>	
Dapagliflozin	461432-26-8	Farxiga	Hazardous drug	Repo 1B, STOT RE 1 (kidney, bone)	<b>NIOSH Table 1 (similar effects)</b>	
Darbepoetin alfa	209810-58-2		Erythropoiesis stimulator	Cancer progression , reduced body weight of offspring	<b>NIOSH list: Proposed update Feb. 2018 (Table 2)</b>	
Dasatinib	302962-49-8	Sprycel	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Daunorubicin	20830-81-3	Daunomycin	Anti-neoplastic	IARC Group 2B, reproductive hazard, FDA cat. D	<b>NIOSH Table 1</b>	
Decitabine	2353-33-5	Dacogen, 5-aza-2'-deoxycytidine	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Deferiprone	30652-11-0	Ferriprox	Hazardous drug, Iron chelation	Reproductive effects, genotoxic, FDA pregnancy cat. D	<b>NIOSH Table 2</b>	<b>Special waste water requirements.</b> Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Degarelix	214766-78-6	Firmagon	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. X	<b>NIOSH Table 1</b>	
Denatonium Benzoate (salt)	3734-33-6	N-[2-[(2,6-dimethylphenyl)amino]-2-oxoethyl]-N,N-diethyl-benzenemethanaminium, monobenzoate; Lidocaine benzyl benzoate; NSC 157658; WIN 16,568;	Hazardous Chemical	Acute Toxicity: Inhalation, Category 1, Acute Toxicity: Oral, Category 4, Corrosive	<b>NIOSH Table 2 (similar effects)</b>	
Dexamethasone	50-02-2	MK-125, NSC 34521, Decadron, Baycadron, Maxidex, Ozurdex	Hazardous drug (corticosteroid)	GHS Reproductive toxicity Cat 2	<b>NIOSH Table 3 (similar effects)</b>	
Dexrazoxane	24584-09-6	Zinecard, Cardioxane	Hazardous drug, cardio-protective for chemotherapy patients	Secondary malignancies, FDA Pregnancy cat. C, genotoxic, testicular atrophy	<b>NIOSH Table 2</b>	
Diacetyl	431-03-8	2,3-Butanedione, 2,3-Butadione, Dimethyldiketon, Dimethylglyoxal, Diacetyl	Hazardous Chemical	Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Respiratory	<b>NIOSH Table 2 (similar effects)</b>	
Diclofenac (sodium salt)	15307-79-6	2-[(2,6-dichlorophenyl)amino]-benzeneacetic acid, monosodium salt; Benfopen;	Hazardous Chemical	system, H373	<b>NIOSH Table 3</b>	
Diesel Fuel/Exhaust	68476-34-6	No. 2-D Grade Diesel Fuel Oil (defined by ASTM D-975); Treated or Refined Diesel Fuel No. 2; Grade 2 Distillate Fuel; Hydrodesulfurized Middle Distillate; C9-C16 Petroleum Hydrocarbons	Hazardous Chemical	CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (central nervous system (CNS)) - Category 2 ASPIRATION HAZARD - Category 1	<b>Carcinogen, NIOSH Table 2 (similar effects)</b>	
Diethanolamine	111-42-2	Bis(hydroxyethyl) amine, 2,2'-Iminodiethanol	Hazardous chemical, Carcinogen	GHS carcinogen Cat 2, GHS specific target organ toxicity Cat. 2 (repeat exp.)	<b>Carcinogen</b>	
Diethylene glycol methyl ether	111-77-3	2-(2-Methoxyethoxy) ethanol, Methylidiglycol, Methyl Carbitol®	Hazardous chemical	GHS reproductive toxicity Cat 2.	<b>NIOSH Table 3 (similar effects)</b>	
Diethylnitrosoamine	55-18-5	DEN, N-Nitrosodiethylamine	Hazardous chemical	IARC Group 2A, liver effects	<b>Carcinogen</b>	
Diethylstilbestrol	56-53-1	DES, Stilbestrol	Hazardous drug	GHS Cat. 1B carcinogen, reproductive toxicity, teratogen.	<b>NIOSH Table 3 (similar effects)</b>	
Dihydroergotamine	511-12-6		Migraine treatment	Oxytocic properties (contraction of the uterus at low doses)	<b>NIOSH list: Proposed update Feb. 2018 (Table 3)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Dihydrotestosterone	521-18-6	(5.alpha.)-17.beta.-hydroxy-androstan-3-one; Androstanolone; DHT; NSC 10972; Stanolo	Hazardous Drug	Carcinogenicity, Category 2Toxic To Reproduction, Category 1AToxic To Reproduction, Effects on or via lactati	<b>NIOSH Table 3 (similar effects)</b>	
Dimethylnitrosamine	62-75-9	DMN, N-Nitrosodimethylamine (NDMA)	Carcinogen	IARC Group 2A, GHS Carcinogen Cat 1B	<b>Carcinogen</b>	
Dinitrophenol	51-28-5	DNP, 2,4-Dinitrophenol, 2,4-DNP	Hazardous chemical	GHS Cat. 2 Specific organ toxicity, repeated exposure	<b>NIOSH Table 2 (similar effects)</b>	
Diphenyl selenide	1132-39-4		hazardous chemical (repeat exposure)	Oral toxicity with behavioral, respiratoy and gross metabolic effects. Other organoselenium compounds are suspected animal carcinogens	<b>NIOSH Table 2 (similar effects)</b>	
Diphtheria Toxin			Hazrdous agent	Necrosis of the heart and liver, myocarditis	<b>NIOSH Table 2 (similar effects)</b>	<b>Diphtheria toxin is highly toxic.</b>
Dobutamine Hydrochloride	49745-95-1		Hazardous Chemical	Reproductive Toxicity (cat 2)	<b>NIOSH Table 3 (similar effects)</b>	
Docetaxel	114977-28-5	Taxotere	Anti-neoplastic	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Dofetilide	115256-11-6	N-[4-[2-[Methyl[2-[4-[(methylsulfonyl)amino]phenoxy]ethyl]amino]ethyl]phenyl]methanesulfonamide UK-68798	Hazardous drug	GHS Repo. Toxicity Cat. 1A		
Doxorubicin	23214-92-8	Adriamycin	Anti-neoplastic drug	IARC Group 2A, reproductive hazard	<b>NIOSH Table 1</b>	
Doxycycline hyclate	24390-14-5	Doxycycline hydrochloride hemethanolate hemihydrate	Hazardous Chemical	Reproductive Toxicity (Category 2) H361	<b>NIOSH Table 3 (similar effects)</b>	<i>Special waste water requirements. Contact UR Environmental Compliance / Waste Management Group. It is required that any leftover drinking water be collected and disposed of as Chemical Hazardous Waste.</i>
Dutasteride	164656-23-9	Avodart	Hazardous Drug	Toxic To Reproduction, Category 1B	<b>NIOSH Table 2 (similar effects)</b>	
Ebselen (selenium compound)	60940-34-3	2-Phenyl-1,2-benzisoselenazol-3(2H)-one	hazardous organoselenium drug	GHS Specific target organ toxicity (repeated exposure)Cat. 2	<b>NIOSH Table 2 (similar effects)</b>	
E-Cigarette Smoke/Extract			Toxic chemical	Acute oral, dermal hazard	<b>NIOSH Table 2 (similar effects)</b>	Nicotine, other toxic substances

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Eltrombopag	496775-61-2	3'-[2-[(2Z)-1-(3,4-dimethylphenyl)-1,5-dihydro-3-methyl-5-oxo-4H-pyrazol-4-ylidene]hydrazinyl]-2'-hydroxy-[1,1'-biphenyl]-3-carboxylic acid; SB 49711	Hazardous Chemical	Specific Target Organ Toxicity (repeated exposure), Category	<b>NIOSH Table 3 (similar effects)</b>	
Emetine	316-42-7		Hazardous Drug	Acute Tox.(O) 2: H300	<b>NIOSH Table 2 (similar effects)</b>	
Entinostat	209783-80-2	MS-275 and SNDX-275	Hazardous drug	Reproductive hazard, FDA pregnancy category D	<b>UCAR provided list - NIOSH Table 3 (similar effects)</b>	
Enzalutamide	915087-33-1	MDV 3100, Xtandi	Hazardous drug	Reproductive hazard, embyo-fetal toxicity in mice	<b>NIOSH Table 1</b>	
Epirubicin	56420-45-2	Ellence	Anti-neoplastic drug	Reproductive hazard	<b>NIOSH Table 1</b>	
EPOR inhibitor developed by Dr. Singh			unknown toxicity	unknown toxicity		
Eribulin	253128-41-5	Halaven	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Erlotinib	183321-74-6	Tarceva	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Estradiol	50-28-2	17β-Estradiol, Dihydrofolliculin, Estring, EstroGel, estrogen	Hazrdous drug, carcinogen	GHS carcinogen Cat.2, GHS Reproductive toxicity Cat 1A	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	
Estramustine	2998-57-4		Anti-neoplastic drug, steroidal estrogen	Reproductive hazard, FDA pregnancy category X	<b>NIOSH Table 1</b>	
Ethyl carbamate	51-79-6	Urethane	Hazardous chemical	GHS Cat. 1B carcinogen	<b>Carcinogen</b>	
Ethyl methanesulfonate	62-50-0		Hazardous Drug	Germ cell mutagenicity, Category 1B, H340 Carcinogenicity, Category 1B, H350 Reproductive toxicity, Category 2, H361	<b>NIOSH Table 3</b>	
Ethylbenzene	100-41-4		Carcinogen	GHS Carcinogen Cat. 2, GHS Reproductive toxicity Cat. 2	<b>Carcinogen</b>	
Ethylene Glycol	107-21-1	1,2-Ethanediol	Hazrdous chemical	GHS specific organ toxicity Cat 2. kidney	<b>NIOSH Table 2 (similar effects)</b>	
Etoposide	33419-42-0	Etopophos, Toposar	Anti-neoplastic drug	IARC Group 1, reproductive hazard, FDA cat. D	<b>NIOSH Table 1</b>	
Evans Blue (Azo dye)	314-13-6	C.I. 23860; Direct Blue 53	Hazardous chemical	GHS Cat 1B Carcinogen	<b>Carcinogen</b>	
Everolimus	159351-69-6	Zortress, Certican, Afinitor, Votubia	Anti-neoplastic drug		<b>NIOSH Table 1</b>	
Exemestane	107868-30-4	Aromasin	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category X	<b>NIOSH Table 1</b>	
Exenatide	141732-76-5	Byetta, Bydureon	Antidiabetic	Carcinogen, reproductive hazards	<b>NIOSH list: Proposed update Feb. 2018 (Table 2)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Fast Green FCF	2353-45-9	Food green 3, FD&C Green 1724	food dyd, toxic chemical	Reproductive effects, GHS Cat. 2 germ cell mutagen	<b>NIOSH Table 3 (similar effects)</b>	
Fentanyl	437-38-7		Hazardous drug	Reproductive effects, GHS Cat. 2	<b>NIOSH Table 3 (similar effects)</b>	
Finasteride	98319-26-7	Propecia®; Proscar®; MK 906	Hazardous Drug	Toxic To Reproduction, Category 1B Specific Target Organ Toxicity (repeated exposure), Category 1	<b>NIOSH Table 2 (similar effects)</b>	
Flecainide (acetate salt)	54143-56-5	N-(2-Piperidylmethyl)-2,5-bis-(2,2,2-trifluoroethoxy)benzamideacetate salt	Hazardous drug	GHS reproductive toxicity Cat. 1B	<b>NIOSH Table 3 (similar effects)</b>	
Floxuridine	50-91-9		Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Fludarabine	21679-14-1	Fludara	Hazardous drug	Reproductive, FDA Cat. D	<b>NIOSH Table 1</b>	
Fluocinolone acetonide	67-73-2	(6.alpha.,11.beta.,16.alpha.)-6,9-difluoro-11,21-dihydroxy-16,17-[[1-methylethylidene]bis(oxy)]-pregna-1,4-diene-3,20-dione; NSC 92339; RS 1401AT; Retisert	Hazardous Drug	Toxic To Reproduction, Category 2	<b>NIOSH Table 3 (similar effects)</b>	
Fluorouracil	51-21-8	5-Fluorouracil, Adrucil, 5-FU (Sigma) F132, Prozac, LY-110,	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Fluoxetine hydrochloride	56296-78-7	140 hydrochloride	Hazardous drug	Reproductive hazard, GHS specific organ toxicity Cat. 2, teratogen	<b>NIOSH Table 3 (similar effects)</b>	
Fluphenazine	69-23-8	Prolixin, Moderate, Moditen	Hazardous drug	GHS Cat 2 Acute toxicity (inhalation), corrosive	<b>NIOSH Table 2 (similar effects)</b>	
Flutamide	13311-84-7	Eulexin	Anti-neoplastic drug *indicated only for males	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Fluvastatin (sodium salt) <b>NOT Fluvastatin CAS: 93957-54-1</b>	93957-55-2		Hazardous Drug	Carcinogenicity, Category 1B, Toxic To Reproduction, Category 2	<b>NIOSH Table 2 (similar effects)</b>	
Formaldehyde	50-00-0	Methyl aldehyde Methylene glycol Methylene oxide Formalin (aqueous solution) Formol	Hazardous chemical	Carcinogen IARC 1	<b>Carcinogen</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Folfirinox			Hazardous Chemical		<b>NIOSH TABLE 1</b>	This is a cocktail medication in which three of the four ingredients are hazardous.
Forchlorfenuron	68157-60-8	N-(2-chloro-4-pyridinyl)-N'-phenyl-urea	Hazardous Chemical	Carcinogen Cat. 2	<b>Carcinogen</b>	
Fracking Mix		CPPU	Hazardous Mixture	Germ Cell, Acutely Toxic, Carcinogen	<b>NIOSH Table 3 (similar effects)</b>	
FTY 720	162359-56-0	KT 30	Hazardous Chemical	Specific target organ toxicity - repeated exposure(Category 2), Immune system, H373 Reproductive Toxicity - Category	<b>NIOSH Table 3 (similar effects)</b>	
Fulvestrant	129453-61-8	N-Phenyl-N'-(2-chloro-4-pyridyl)urea	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Furosemide	54-31-9	Frusamide, Lasix, 5-(aminosulfonyl)-4-chloro-2-[[furanmethyl]amino]-benzoic acid	Hazardous drug	GHS Reproductive hazard Cat. 1B	<b>NIOSH Table 3 (similar effects)</b>	
Gabapentin	60142-96-3	1-(Aminomethyl)-cyclohexaneacetic acid; Neurontin	Hazardous drug	GHS Reproductive hazard Cat. 1B	<b>NIOSH Table 3 (similar effects)</b>	
Galunisertib	700874-72-2	LY2157299,	Anti-neoplastic drug (Phase II trials)	GHS Target organ toxicity (single dose) Cat. 1 (respiratory system), GHS Germ cell mutagen Cat.2, severe respiratory and skin sensitization	<b>NIOSH Table 1 (similar effects)</b>	
Gamma-hydroxybutyric acid sodium salt	502-85-2	GHB	Hazardous chemical	GHS Cat. 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Ganciclovir	627-054-3	2'-Nor-2'-deoxyguanosine, BW 759, Cytovene, Vitrasert, Cymevene, DHPG	Anti-viral, hazardous drug	GHS Cat. 2 Carcinogen, GHS Cat 1B Reproductive toxicity, GHS Cat 1A Germ Cell Mutagen	<b>Carcinogen</b>	
Gefitinib	184475-35-2	Iressa	Hazardous Drug	GHS Cat. 2 Carcinogen, Repo toxicity Cat. 2, STOT cat. 2	<b>Carcinogen</b>	
Gemcitabine	122111-03-9	Gemzar	Anti-neoplastic drug	Germ Cell Mutagenicity, GHS Cat. 1B; Reproductive Toxicity, GHS Cat. 1B	<b>NIOSH Table 1</b>	
Gemtuzumab ozogamicin	220578-59-6	Mylotarg	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Gentamicin sulfate	1405-41-0	Garamycin	Hazardous Drug	Toxic to Reproduction Cat 2	<b>NIOSH Table 3 (similar effects)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
GLPG-1690	1628260-79-6	Ziritaxestat	Autotaxin inhibitor, hazardous drug	GHS Cat. 2 Reproductive toxicity, Cat. 2 Germ Cell Mutagenicity, Cat 1 specific organ toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Glutaraldehyde	111-30-8	Pentane-1,5-dial, Glutaric dialdehydesolution	Hazardous Chemical	Acute Inhalation Toxicity 2	<b>NIOSH Table 2 (similar effects)</b>	
Goserelin	65807-02-5	Zoladex	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category X	<b>NIOSH Table 1</b>	
Haloperidol	52-86-8	Haldol	Hazardous drug	GHS Cat. 2 Reproductive toxicity, Cat. 2	<b>NIOSH Table 3 (similar effects)</b>	
Harringtonine	26833-85-2	3-[4-methyl (2R)-2-hydroxy-2-(3-hydroxy-3-methylbutyl)butanedioate]cep halotaxine; NSC124147;	Hazardous Chemical	Acute Toxicity: Inhalation, Category 1 Acute Toxicity: Oral, Category 2 Acute Toxicity: Skin, Category 2	<b>NIOSH Table 2 (similar effects)</b>	
Heat-not-burn emissions from tobacco			Toxic chemical	Acute oral, dermal hazard	<b>NIOSH Table 2 (similar effects)</b>	Nicotine, other toxic substances
Heptadecafluorooctanesulfonic acid solution	1763-23-1	Heptadecafluorooctane-1-sulphonic acid, PFHxS	Hazardous Chemical	Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 1B), H360 Effects on or via lactation, H362 Specific target organ toxicity - repeated exposure (Category 1), H372	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	
Histrelin	76712-82-8	Vantas, Supprelin LA	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category X, spontaneous abortion risk	<b>NIOSH Table 1</b>	
Human Chorionic Gonadotropin	9002-61-3	HCG, Pregnyl, Chorulon	Hazardous drug	GHS Cat. 2 Reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Hydrocortisone	50-23-7	Cortisol	Hazardous drug	GHS Cat. 2 Reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Hydrofracking Chemical Mixture	( generally arsenic, benzene, cadmium, lead, formaldehyde,		Hazardous Chemical	Tox, Repo	<b>NIOSH Table 3 (similar effects)</b>	
Hydroxyurea	127-07-1	Hydroxycarbamide	Hazardous drug	Reproductive, FDA Cat. D	<b>NIOSH Table 1</b>	
Idarubicin	58957-92-9	Zavedos, Idacyclin, 4-demethoxydaunorubicin	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	



**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
ifosfamide	3778-73-2	Ifex	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Imatinib	152459-95-5	Gleevec	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
India Ink (contains carbon black)			Hazardous Chemical	Carc. 2 H351 Suspected of causing cancer	<b>NIOSH Table 3 (similar effects)</b>	
Indinavir (sulfate)	157810-81-6		hazardous anti-viral drug	GHS Cat. 2 Reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Inotuzumab ozogamincin	635715-01-4	Besponsa	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Interferon beta-1b	145155-23-3	Betaseron, Actoferon	Immune modulator	Reproductive toxicity, spontaneous abortion	<b>NIOSH list: Proposed update Feb. 2018 (Table 2)</b>	
Irinotecan	97682-44-5	Camptosar, Campto	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Iron-Dextran	9004-66-4	Ferric hydroxide dextran complex	Hazardous Chemical	Carc. Cat 1B, H350	<b>Carcinogen</b>	
Isoflurane	26675-46-7		Hazardous Chemical	Specific Target Organ Toxicity, repeated exposure, Inhalation, central nervous system, Reproductive Toxicant	<b>NIOSH Table 2 (similar effects), NIOSH Table 3 (similar effects)</b>	
Isotretinoin	4759-48-2	Accutane	Retinoid	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 3)</b>	
Ivabradine	155974-00-8	Corlanor, Procoralan	HCN blocker	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 3)</b>	
Ixabepilone	219989-84-1	Azapothilone, BMS-247550, Ixempra	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Ixazomib	1072833-77-2	Ninlaro	Anti-neoplastic drug	Male / female must use effective contraception during and for 3 mo. Following treatment	<b>NIOSH Table 1</b>	
Juul e-cigarette aerosol (Juul Pods) (Nicotine)		e-cigarette / Juul / Emerging tobacco products	Hazardous Chemical		<b>NIOSH Table 2 (similar effects)</b>	Copy text from previous UCAR letter discussing delivery device
Kanamycin sulfate	70560-51-9	Kanamycin	Hazardous drug	GHS Cat. 1B Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Ketoconazole	65277-42-1	Nizoral; R 41400,	Hazardous Drug	Toxic Repro. 1B: H360 TOST (RE) 2: H373	<b>NIOSH Table 3 (similar effects)</b>	
Kojic acid	501-30-4		Hazardous Chemical	GHS Carc 2	<b>Carcinogen</b>	
Lamivudine	134678-17-4	3TC, Epivir	Anti-retroviral drug	GHS Cat. 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Latanoprost	130209-82-4	Xalatan	Hazardous drug	GHS Cat. 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Latrotoxin	65988-34-3		Black widow venom	GHS Cat 2 Acute toxicity (inhalation)	<b>NIOSH Table 2 (similar effects)</b>	
Lead acetate	301-04-2	Lead di(acetate)	Hazardous chemical	IARC Group 2A carcinogen, reproductive hazard	<b>Carcinogen</b>	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group
Lead Acetate Trihydrate	6080-56-4	Lead (II) acetate, Lead di(acetate) trihydrate	Carcinogen	IARC Group 2A carcinogen, GHS cat. 1A reproductive hazard	<b>Carcinogen</b>	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group
Lead Nitrate	100099-74-8		Carcinogen	GHS Cat. 1B carcinogen, reproductive hazard, CNS developmental abnormalities	<b>Carcinogen</b>	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group
Lenalidomide	191732-72-6		Hazardous drug	GHS Cat. 2 reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Lenvatinib	417716-92-8	Lenvima	Anti-neoplastic drug	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Letrozole	112809-51-5	Femara	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category X	<b>NIOSH Table 1</b>	
Leuprolide	53714-56-0	Leuprorelin, Lupron, Eligard	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category X	<b>NIOSH Table 1</b>	
Levofloxacin	100986-85-4	(3S)-9-fluoro-2,3-dihydro-3-methyl-10-(4-methyl-1-piperazinyl)-7-oxo-7H-pyrido[1,2,3-de]-1,4-benzoxazine-6-carboxylic acid; Iquix; Levaquin; Quixin;	Hazardous Drug	Toxic To Reproduction, Category 2 Toxic To Reproduction	<b>NIOSH Table 3 (similar effects)</b>	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group
Linezolid	165800-03-3	N-[[[(5S)-3-[3-fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-acetamide; PNU100766;	Hazardous Drug	Specific Target Organ Toxicity (repeated exposure), Category 1	<b>NIOSH Table 2 (similar effects)</b>	
Lisinopril	83915-83-7	Qbrelis, Prinivil, and Zestril	Hazardous drug	Repo 1A, FDA pregnancy category D, STOT RE 2	<b>NIOSH Table 3 (similar effects)</b>	<b>Special waste water requirements.</b> Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste
Lomustine	13010-47-4	CCNU, Gleostine	Anti-neoplastic drug	IARC Group 2A carcinogen, Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Maneb	12427-38-2		Hazardous chemical	GHS Cat 2 Reproductive hazard, skin sensitization	<b>NIOSH Table 3 (similar effects)</b>	
Maraviroc	376348-65-1	Selzentry, Celsentri	Anti-retroviral drug	GHS Target organ toxicity (repeated exposure) Cat. 2 (cardiovascular)	<b>NIOSH Table 2 (similar effects)</b>	
Mechlorethamine	51-75-2	Mustine, Chlormethine	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Medetomidine (hydrochloride)	86347-15-1	5-[1-(2,3-dimethylphenyl)ethyl]-1H-imidazole, monohydrochloride; Domitor®; MPV 7	Hazardous Drug	Acute Tox.(O) 2: H300 Acute Tox.(D) 3: H311 Eye Damage 2A: H319 Acute Tox.(I) 3: H331STOT (SE) 3: H335 H336 Toxic Repro. 2: H361	<b>NIOSH Table 3 (similar effects)</b>	
Megestrol	3562-63-8		Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category X	<b>NIOSH Table 1</b>	
Melamine	108-78-1		Hazardous chemical	GHS Carcinogen Cat. 2, Repo Cat. 2	<b>Carcinogen</b>	
Melphalan	148-82-3	Alkeran, Sarcolysin	Hazardous drug	IARC Group 1, reproductive hazard, FDA cat. D	<b>NIOSH Table 1</b>	
Mercaptopurine	50-44-2	6-MP, Purinethol	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Merestinib	1206799-15-6		Hazardous Drug	Germ cell mutagenicity (Category 2), H341 Reproductive toxicity (Category 2), H361 Specific target organ toxicity - single exposure (Category 1), H370	<b>NIOSH Table 3 (similar effects)</b>	
Metamizole sodium	68-89-3	Dipyrone	Hazardous Drug	GHS Cat. 2 reproductive toxicity,	<b>NIOSH Table 3 (similar effects)</b>	
Methapyrilene HCL	91-80-5		Hazardous Drug ( antihistamine and anticholinergic)	GHS Carcinogen Cat. 2	<b>Carcinogen</b>	
Methotrexate	59-05-2	MTX, amethopterin, Trexall, Rheumatrex	Anti-neoplastic drug	Neurological effects, kidney, liver and respiratory effects, teratogenic, FDA Pregnancy Cat X	<b>NIOSH Table 1</b>	
Methotrimeprazine	60-99-1	Levomeprazine, Levomepromazine	Hazardous drug, Analgesic, low-potency antipsychotic	GHS Cat 1 Specific target organ toxicity (single exposure - heart), GHS Cat 1 Specific target organ toxicity (repeated exposure - nervous syentm)	<b>NIOSH Table 2 (similar effects)</b>	
Methyl carbamate	598-55-0	Urethylane	Hazardous chemical	IARC Group 3 - possibly carcinogenic	<b>UCAR provided list - Carcinogen</b>	
Methyl mercaptoimidazole	60-56-0	2-Mercapto-1-methylimidazole, Methimazole, 1-Methyl-2-imidazoethiol		GHS Cat 2. reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Methylmercury chloride (CH <sub>3</sub> -Hg) <sup>+</sup> (X) <sup>-</sup> (any anion)	115-09-3	Methylmercury (II) chloride, Chloromethylmercury	Hazardous chemical	IARC Group 2B, reproductive hazard	<b>Carcinogen - Methylemercury chloride</b>	<b>Methylmercury chloride can present an extreme health risk when handling the pure materials and when preparing solutions. Methylmercury has been implicated with the death of one researcher and must be handled with extreme caution! It is readily absorbed through intact skin. Do NOT wear latex gloves when handling this agent or solutions, including drinking water.</b>
Methylmethanesulfonate	66-27-3	MMS, Methanesulfonic acid methyl ester	Hazardous chemical	IARC Group 2A carcinogen, serious eye and respiratory irritation	<b>Carcinogen</b>	
Methylphenidate (hydrochloride)	298-59-9	Ritalin, Concerta, NSC 169868	Hazardous Drug	GHS Cat. 2 Cell mutagen, respiratory and skin sensitization	<b>NIOSH Table 3 (similar effects)</b>	
Methylprednisolone	83-43-2	Medrol, Medesone, Noretona	Hazardous drug, Corticosteroid hormone	GHS Cat. 1A Reproductive toxicity, GHS Cat 2 Specific Target organ toxicity (repeated exposure)	<b>NIOSH Table 3 (similar effects)</b>	
Metoprolol Tartrate	56392-17-7		Hazardous drug	GHS Cat. 2 reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Metronidazole	443-48-1	FLAGYL (mixture for injection), Metro	Carcinogen / antibiotic	GHS Cat. 2 Carcinogen, reproductive hazard	<b>Carcinogen</b>	<b>Special waste water requirements.</b> Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
Mifepristone	84371-65-3	RU-38486, RU-486	Hazardous drug (progesterone antagonist)	GHS Cat. 1B reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Miltefosine	58066-85-6	Impavido, Miltex, RU38486	Antibiotic	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 3)</b>	
Mitomycin C	50-07-7	Mitosol, Mutamycin, ; Ametycine; MitoExtra;	Anti-neoplastic drug	IARC Group 2B carcinogen, Reproductive hazard, FDA	<b>NIOSH Table 1</b>	
Mitoparaquat	1821370-28-8	MitoPQ	Hazardous chemical	GHS Acute Toxicity cat. 2, Specific Organ Toxicity cat. 1, repeated	<b>NIOSH Table 2 (similar effects)</b>	
Mitotane	53-19-0	Lysodren	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Mitoxantrone	65271-80-9	Novantrone	Anti-neoplastic drug	IARC Group 2B carcinogen, Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Monocrotaline	315-22-0		Carcinogen	GHS Cat. 2 carcinogen	<b>Carcinogen</b>	
Morphine Sulfate	64-31-3	(5.alpha.,6.alpha.)-7,8-didehydro-4,5-epoxy-17-methyl-morphinan-3,6-diol, hemisulfate, hydrate	Hazardous Drug	Germ Cell Mutagenicity: Category 2 Reproductive Toxicity: Category 1B	<b>NIOSH Table 3 (similar effects)</b>	
Muscimol * NOTE	2763-96-4	agarin, pantherine	Neurotoxic agent	neurological effects	<b>UCAR provided list - NIOSH Table 2 (similar effects)</b>	Sigma SDS: GHS Cat. 3 Specific Organ Tox. (CNS), Cat. 2 Acte Tox. Oral * <b>Intracranial injection of microliter doses does not pose a risk to researchers. Cage labling not required. See wording template in Standard Work / letter templates</b>

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Mycophenolate Mofetil	24280-93-1	Mycophenolic acid, Mofetil,, CellCept	Immunosuppressant drug	GHS Cat 2 Germ cell mutagen, GHS Cat. 1 specific organ toxicity	<b>NIOSH Table 2 (similar effects)</b>	
N,N-Dimethylacetamide	127-19-5	DMAC, DMA	Hazardous chemical	GHS Cat. 1B reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
N,N-Dimethylacrylamide	2680-03-7	DMAC, DMA	Hazardous chemical			
N,N-Dimethylformamide	68-12-2	DMF	Hazardous chemical	Reproductive, germ cell mutagen, teratogen, GHS Reproductive toxicity Cat. 1B	<b>NIOSH Table 3 (similar effects)</b>	
Naltrexone hydrochloride	16676-29-2	Vivitrol	Hazardous drug	GHS STOT Cat. 2 (repeat exposure), Liver	<b>NIOSH Table 2 (similar effects)</b>	
Naphthalene	91-20-3		Carcinogen	GHS Carcinogen Cat 2	<b>Carcinogen</b>	
N-butyl-N-4 hydroxybutyl Nitrosamine	3817-11-6	BBN	Hazardous chemical	GHS Carc 1B	<b>Carcinogen</b>	oteni
Nelarabine	121032-29-9		Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Neo-Predef	mixture		Hazardous Drug	Reproductive Toxicity: Category	<b>NIOSH Table 3 (similar effects)</b>	Intended Use:Veterinary product used as antibiotic agent , anti-inflammatory , anesthetic agen
Neostigmine (methyl sulfate)	51-60-5	Methyl sulfate, NSC 93753, Prostigmin	Toxic chemical	Acute Tox.(O) 3: H301Acute Tox.(D) 1: H310Acute Tox.(I) 1: H330	<b>NIOSH Table 2 (similar effects)</b>	
N-ethyl-n-nitrosourea	759-73-9	ENU, N-nitroso-N-ethylurea	Toxic chemical	GHS Cat. 1B carcinogen, reproductive hazard,	<b>Carcinogen</b>	
Nicotine	22083-74-5	3-(1-methyl-2-pyrrolidinyl)-pyridine; DL-Nicotine;	Toxic chemical	Acute Tox.(O) 3: H301 Acute Tox.(D) 2: H310 Aquatic (C) 2: H411	<b>NIOSH Table 2 (similar effects)</b>	
Nilotinib	641571-10-0	Tasigna	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Nimodipine	66085-59-4	Nimotop	Calcium channel blocker	GHS Cat 2 Specific organ toxicity (repeated exposure)	<b>NIOSH Table 2 (similar effects)</b>	
Nitroglycerin	55-63-0	NITROSTAT; VERNIES	Hazardous Chemical	Acute Tox. 2 (H300) Acute Tox. 2 (H310) STOT RE 2 (H373) Aquatic Chronic 2 (H411) Acute Tox. 2 (H330) Unst. Expl. (H200)	<b>NIOSH Table 3 (similar effects)</b>	
NKH 477	138605-00-2	(3R,4aR,5S,6aS,10S,10aR,10b	activator	Acute toxicity GHS Cat. 2	<b>NIOSH Table 1</b>	<b>ONLY CATEGORIZED AS AN ORAL ACUTE TOXICITY (CATEGORY 2)</b>
N-Nitrosomorpholine	59-89-2		Carcinogen	Carcinogenicity (Category 1B),	<b>Carcinogen</b>	
N-Nitroso-N-methylurea	684-93-5	N-Methyl-N-nitrosourea; MNU	Carcinogen	Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 1B), H360	<b>Carcinogen</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
N-nitrosodi-n-propylamine	621-64-7	N-Nitroso-N-propyl-1-propanamine; N,N-Dipropylnitrosamine; N-Nitroso-N-di-n-propylamine; N-Nitrosodi-n-propylamine; N-Nitrosodipropylamine; NSC 133;	Carcinogen	GHS Carcinogen Cat. 1B	<b>Carcinogen</b>	
Norepinephrine	51-41-2	Arterenol, L-Noradrenaline, Levarterenol	Hazardous drug	Acute toxicity, GHS Cat.1 by inhalation	<b>NIOSH Table 2 (similar effects)</b>	Chemical review not required, unless used as an experimental drug
Notexin	37233-96-4	biological toxin from from Notechis scutatus scutatus (Tiger snake)	pre-synaptic and post-synaptic neurotoxins, myotoxins and procoagulants.	neurotoxin	<b>NIOSH Table 2 (similar effects)</b>	No sds available
Olaparib	763113-22-0	hydrochloride	Anti-neoplastic drug	Carcinogen, teratogen and other developmental toxicity	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Omacetaxine mepesuccinate	26833-87-4	3,4a,7,7,10a-pentamethyl-1-oxo-1H-naphtho[2,1-b]pyran-6-yl ester b-Alanine	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Organoselenium compounds			hazardous chemical (mineral)	GHS Cat. 2 Specific organ toxicity	<b>NIOSH Table 2 (similar effects)</b>	
Osimertinib	1421373-65-0	Tagrix, Tagrisso	Anti-neoplastic drug	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Ouabain Octahydrate	11018-89-6	Acocantherine, G-Strophanthin	Hazardous Chemical	Acute Toxicity (Cat 1)	<b>NIOSH Table 2 (similar effects)</b>	
Oxaliplatin	61825-94-3	Eloxatin	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Oxotremorine	70-22-4	1-[4-(1-Pyrrolidiny)-2-butynyl]-2-pyrrolidinone	Hazardous drug	Parasympathomemetic, Parkinson-like effects, corrosive, acute toxicity	<b>NIOSH Table 2 (similar effects)</b>	
Oxytetracycline Hydrochloride	2058-46-0		Hazardous Drug	Reproductive toxicity(Category 2), H	<b>NIOSH Table 3 (similar effects)</b>	
Oxytocin	50-56-6	1,2-dithia-5,8,11,14,17-pentaazacycloeicosane; Otx; α-Hypophamine, Oxytocic hormone	Hazardous Drug	Hazardous for 3rd trimester; FDA Pregnancy Category C	<b>NIOSH Table 3</b>	
Ozone	10028-15-6	Triatomic oxygen, Trioxygen, O <sub>3</sub>	Hazardous chemical (gas)	GHS Cat. 1 Respiratory toxicity (inhalation) acute and repeated	<b>NIOSH Table 2 (similar effects)</b>	
Paclitaxel	33069-62-4	Taxol	Hazardous drug	Reproductive hazard, liver, kidney, gastro effects	<b>NIOSH Table 1</b>	
Panobinostat	404950-80-7	Farydak	Anti-neoplastic	Special warnings on contraception for females while taking and 1-mo. Post-treatment	<b>NIOSH Table 1</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Paraformaldehyde	30525-89-4	Sigma-Aldrich P6148	Carcinogen	GHS Cat. 2 carcinogen	<b>Carcinogen</b>	
Paraquat chloride	1910-42-5		Hazardous chemical	GHS Cat. 1 Acute toxicity (inhalation), GHS Cat. 1 specific organ toxicity (GI, liver, heart, kidney)	<b>NIOSH Table 2 (similar effects)</b>	
Paraquat dichloride hydrate	75365-73-0	Methyl viologen dichloride, 1,1'-Dimethyl-4,4'-bipyridinium dichloride, Gramoxone	Herbicide / Toxic chemical	Neurotoxic, lung, liver, kidney, cardiac effects	<b>NIOSH Table 2 (similar effects)</b>	
Parthenolide	20554-84-1		Hazardous chemical	GHS Cat 2 Germ Cel mutagen	<b>NIOSH Table 3 (similar effects)</b>	
Pazopanib	444731-52-6	Votrient	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	the drinking water containing pazopanib must be collected as Hazardous Waste and disposed of through the Hazardous Waste Management Unit using Chematix
p-Dimethylaminoazobenzene	60-11-7	Methyl yellow, N,N-Dimethyl-p-phenylazoaniline	Carcinogen	Carcinogenicity(Category 2), H351	<b>Carcinogen</b>	
Pemetrexed	137281-23-3	Alimta	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Pentadecafluorooctanoic acid ammonium salt	3825-26-1	Perfluorooctanoic acid Perfluorocaprylic acid Ammonium pentadecafluorooctanoate		Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 3), H331 Serious eye damage (Category 1), H318 Carcinogenicity (Category 2), H351 Reproductive toxicity (Category 1B), H360 Effects on or via lactation, H362 Specific target organ toxicity - repeated exposure (Category 1), H372	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	
Pentostatin	53910-25-1	Deoxycoformycin, Nipent	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Perfluorononanoic acid	375-95-1	Heptadecafluorononanoic acid	Hazardous Chemical	Carcinogenicity (Category 2), H351, Reproductive toxicity (Category 1B), H360, Specific target organ toxicity - repeated exposure (Category 1), Liver, H372	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Perfluorooctane sulfonic acid potassium salt	2795-39-3	Heptadecafluorooctanesulfonic acid potassium salt	Hazardous Chemical	Carcinogenicity (Category 2), H351; Reproductive toxicity (Category 1B), H360, Effects on or via lactation, H362, Specific target organ toxicity - repeated exposure (Category 1), H372	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	
Perfluorooctanoic acid	335-67-1	PFOA, Pentadecafluorooctanoic acid, perfluorocaprylic acid	Surfactant, toxic chemical	GHS Cat. 2 Carcinogen, reproductive hazard, corrosive	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	
Pertuzumab	380610-27-5	2C4, Perjeta	Anti-neoplastic drug	Black Box warning fetotoxic, Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
<del>PF-05231023</del>	<del>1037589-69-7</del>	<del>PF-05231023; PF05231023; PF-05231023; PF-5231023; PF5231023; PF 5231023</del>	<del>Hazardous Chemical</del>	<del>Germ cell mutagenicity (Category 2), H341Reproductive toxicity (Category 2), H361Specific target organ toxicity - single exposure (Category 1), H370</del>	<del><b>NIOSH Table 3 (similar effects)</b></del>	Moved to Mod/low list on 9/23/20 after review of more current sds
Phenacetin	62-44-2	N-(4-ethoxyphenyl)-acetamide; p-Acetophenetidine; 4'-Ethoxyacetanilide; NSC 76	Hazardous Chemical	Germ Cell Mutagenicity, Category 2Carcinogenicity, Category 1B Specific Target Organ Toxicity (repeated exposure), Category 1	<b>Carcinogen</b>	
Phenol	108-95-2	Hydroxybenzene	Hazardous chemical, extremely corrosive to mucous membranes	GHS germ cell mutagen Cat. 2, GHS specific target organ toxicity Cat. 2,	<b>NIOSH Table 2 (similar effects)</b>	
Phenytoin	57-41-0	Dilantin; Epanutin; Infatab	Anti-seizure medication	GHS Carc 1B, reproductive hazard, neurological hazard	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	
Phthalic acid bis(2-ethylhexyl ester)	117-81-7	Dioctyl phthalate, DEHP, Bis(3-ethylhexyl) phthalate	Hazardous chemical	GHS reproductive toxicity Cat 1B	<b>NIOSH Table 3 (similar effects)</b>	
Physostigmine	57-47-6	eserine	Hazardous chemical	Acute inhalation toxicity-2	<b>NIOSH Table 2 (similar effects)</b>	
Pilocarpine	54-71-7	(3S,4R)-3-ethylidihydro-4-[[1-methyl-1H-imidazol-5-yl)methyl]-2(3H)-furanone,monohydrochloride;	Hazardous Chemical	Acute Toxicity: Inhalation, Category 2Acute Toxicity: Oral, Category	<b>NIOSH Table 2 (similar effects)</b>	
Plerixafor	110078-46-1	1, 1'-[1,4-phenylenebis(methylene)]-bis-1,4,8,11-tetraazacyclotetradecane, Mozobil	hazardous drug	GHS Cat. 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Polatuzumab vedotin	1313206-42-6	Polivy®	Anti-neoplastic drug	GHS Cat. 2 acute toxicity (oral), Cat. 1B Ger cell mutagen, Cat 1B Reproductive toxicity	<b>NIOSH Table 1</b>	
Pomalidomide	19171-19-8	Pomalyst, Imnovid	Anti-neoplastic drug (derivative of thalidomide )	pregnancy category X. Female contraception required	<b>NIOSH Table 1</b>	



**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Ponatinib	943319-70-8	AP24534, Iclusig	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Potassium bromate	7758-01-2	Bromic acid, potassium salt	Carcinogen	Carcinogenicity(Category 1B)	<b>Carcinogen</b>	
Pralatrexate	146464-95-1	Folotyn	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Prazosin hydrochloride	19237-84-4	Minipress, Vasopres, Lentopres	Hazardous drug	GHS Cat. 2 Reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	
Prednisolone	50-24-8	1-Dehydrohydrocortisone	Hazardous drug, Glucocorticoid	GHS Cat. 1B Reproductive toxicity	<b>NIOSH Table 2 (similar effect)</b>	
Prednisone	53-03-2	Deltasone, Orasone, Adasone, P6254	Glucocorticoid drug	GHS Cat. 2 Specific organ toxicity-repeated dose	<b>NIOSH Table 2 (similar effects)</b>	
Pregabalin	148553-50-8	3S-(aminomethyl)-5-methyl-hex	Hazardous Drug	Toxic To Reproduction, Category 2 Specific Target Organ Toxicity (repeated exposure), Category	<b>NIOSH Table 3 (similar effects)</b>	
Pregnant mare serum gonadotropin	9002-70-4	PMSG	hormone	Reproductive toxicity, spotaneous abortion	<b>NIOSH Table 3 (similar effects)</b>	
Probenecid	57-66-9		Hazardous Chemical	GHS Cat. 2 carcinogen	<b>Carcinogen</b>	
Procarbazine	671-16-9	Matulane, Natulane, Procarbazine	Anti-neoplastic drug	IARC Group 2A carcinogen, Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Progesterone	57-83-0	P4; Pregn-4-ene-3,20-dione	Natural hormone, Hazardous drug, carcinogen	GHS Cat 2 carcinogen, GHS Cat. 1B Reproductive toxicity	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	
Propranolol	318-98-9	Propranolol hydrochloride, propanolol	Hazardous drug	GHS Repro 2	<b>NIOSH Table 3 (similar effects)</b>	Pfizer 2015 sds states Repo Tox levels
Prostaglandin E2	363-24-6	Dinoprostone, Cervidil, Prostin E2, Prepidil	Hazardous Chemical	Reproductive Toxicity (Cat 1B)	<b>NIOSH Table 3 (similar effects)</b>	
Pyrene	129-00-0	benzo(def)phenanthrene	Toxic chemical	kidney and liver effects, IARC Group 3	<b>UCAR provided list - Carcinogen</b>	
Quinacrine	83-89-6	Anabrine, Mepacrine	Anti-neoplastic drug ( antiprotozoal, antirheumatic)	Reproductive effects	<b>UCAR provided list - NIOSH Table 1 (similar effects)</b>	<b>Special waste water requirements.</b> Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
Quinoline	91-22-5	1-Benzopyridine	Toxic chemical	Likely to be carcinogenic in humans (EPA - L), GHS Carc. Cat. 1B, genetic effects	<b>Carcinogen</b>	
Raloxifene (hydrochloride)	82640-04-8	Evista, Keoxifene	Hazardous drug (Carcinogen)	GHS Carcinogen Cat 2, GHS Reproductive toxicity Cat. 1B	<b>Carcinogen</b>	
Raltegravir (potassium salt)	871038-72-1	RAL, Isentress	Anti-retroviral drug	GHS Cat. 2 Reproductive hazard, corrosive	<b>NIOSH Table 3 (similar effects)</b>	
Rapamycin	53123-88-9	Sirolimus	Hazardous drug, immunosuppressive	Embryotoxic, fetotoxic,	<b>NIOSH Table 2</b>	
Regorafenib	755037-03-7	BAY 73-4506, Stivarga	Anti-neoplastic drug	Black Box warning: fetotoxic, FDA Pregnancy Cat.D, severe and	<b>NIOSH Table 1</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Rizatriptan	145202-66-0		hazardous drug	GHS Cat 1B reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Romidepsin	128517-07-7	Istodax	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Rosiglitazone	122320-73-4	Avandia	Anti-diabetic drug	GHS Cat. 2 Reproductive hazard, corrosive	<b>NIOSH Table 3 (similar effects)</b>	
Rosuvastatin	147098-20-2		Hazardous drug	GHS Cat. 2 carcinogen, GHS Cat. 1B Reproductive hazard	<b>Carcinogen</b>	
Ruxolitinib	941678-49-5	.beta.R-cyclopentyl-4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazole-1-propanenitrile; INCB018424	Hazardous Drug	Toxic To Reproduction, Category 2 Specific Target Organ Toxicity (repeated exposure), Category	<b>NIOSH Table 2 (similar effects)</b>	
Salmeterol Xinafoate	94749-08-3	1,3-Benzenedimethanol, GR-33243X xinafoate (±) 4-Hydroxy-1-[[[6-(4-phenylbutoxy)hexyl]amino]methyl]-1,3-benzenedimethanol xinafoate	Hazardous drug	GHS target organ effect (cardiovascular) Cat. 1, potential reproductive hazard	<b>NIOSH Table 2 (similar effects)</b>	
Scopolamine (hydrobromide)	114-49-8		Hazardous drug	GHS Cat. 2 Acute toxicity (inhalation), GHS Cat. 1 Acute toxicity (skin), GHS Cat 2 Acute toxicity (oral)	<b>NIOSH Table 2 (similar effects)</b>	
Scopolamine (hydrochloride)	55-16-3		Hazardous drug	GHS Cat. 2 Acute toxicity (inhalation), GHS Cat 2 Acute toxicity (oral), GHS Cat. 1 Acute toxicity (skin) sensitizer	<b>NIOSH Table 2 (similar effects)</b>	
Selumetinib	606143-52-6	5-[(4-bromo-2-chlorophenyl)amino]-4-fluoro-N-(2-hydroxyethoxy)-1-methyl-1H-benzimidazole-6-carboxamide: ARRY-142886, AZD 6244	anti-neoplastic, hazardous drug	Reproductive hazard, Highly toxic (GHS Cat 2)	<b>NIOSH Table 1 (similar effects)</b>	
Silica, crystalline	14808-60-7	quartz		Carcinogen, lung disease	<b>Carcinogen</b>	
Sodium (meta) arsenite	7784-46-5	Sodium dioxoarsenate	Carcinogen	GHS carcinogen Cat 1A, acute toxicity, respiratory and skin sensitization	<b>Carcinogen</b>	Special waste water requirements. Contact UR Env. Compliance / Waste Management Group
Sodium arsenate dibasic heptahydrate	10048-95-0	di-Sodium hydrogen arsenate heptahydrate, Disodium hydrogen arsenate heptahydrate, sodium arsenate	Carcinogen	GHS Cat. 1B carcinogen, OSHA specifically regulated carc. (29CFR 1910.1018)	<b>Carcinogen</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
sodium butyrate	156-54-7		Hazardous Chemical	Germ Cell Mutagenicity, Category 2 Specific, Target Organ Toxicity (single exposure), Category	<b>NIOSH Table 3 (similar effects)</b>	
Sodium tetraborate decahydrate	1303-96-4	Boraxdecahydrate, sodium borotetrahydrate	Hazardous chemical	GHS Reproductive toxicity Cat. 2	<b>NIOSH Table 3 (similar effects)</b>	
Solifenacin succinate	242478-38-2	(1S)-(3R)-1-azabicyclo[2.2.2]oct-3-yl 3,4-dihydro-1-phenyl-2(1H)-iso-quinolinecarboxylate succinate, YM905, Vesicare	Hazardous Drug	Reproductive toxicity(Category 2)	<b>NIOSH Table 3 (similar effects)</b>	
Sonidegib	?	Odomzo, LDE225	Anti-neoplastic drug	Emryo-Fetal toxicity, Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Sorafenib	284461-73-0	Nexavar	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category D	<b>NIOSH Table 1</b>	
Spiperone	749-02-0	Spiroperidol	Antipsychotic, hazardous drug	GHS Cat. 2 reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Spironolactone	52-01-7		Hazardous chemical	GHS Cat. 1B Reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Squalene	111-02-4	Spinacene; trans-Squalene	Hazardous Chemical	Aspiration Toxicity, Category	<b>NIOSH Table 2 (similar effects)</b>	
Staphylococcal Enterotoxins		Subtypes A, B, C, D and E			<b>Select agent. Contact EHS for required handling procedures and controls.</b>	
Staphylococcus aureus super antigens		TSST-1, Se 1X, Se 1M, Se 1Q, Se 1G, Se 1K, Se 1H, Se 1L, Se 1O, Se 1U, Se1I			<b>NIOSH Table 2 (similar effects)</b>	cause magnified immune response
Staphylococcus aureus virulence factors		alpha, beta, phenol soluble modulins			<b>NIOSH Table 2 (similar effects)</b>	cause magnified immune response
Stavudine	3056-17-5	2',3'-didehydro-3'-deoxy-thymidine; d4T; NSC 163661	Hazardous drug	GHS Cat. 2 reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	
Streptomycin sulfate	3810-74-0		Hazardous	GHS Cat. 2 reproductive hazard	<b>NIOSH Table 3 (similar effects)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Streptozotocin	18883-66-4	Streptozocin, Zanosar, STZ	Anti-neoplastic drug	IARC Group 2B possibly carcinogenic, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Strychnine	58-24-9		Hazardous chemical	GHS Acute toxicity Cat 1 (oral), Acute toxicity Cat. 1 (Dermal)	<b>NIOSH Table 2 (similar effects)</b>	
Styrene	100-42-5		Hazardous chemical, Carcinogen	GHS Carcinogen Cat. 2, GHS Reproductive toxicity Cat. 2	<b>Carcinogen</b>	
Sudan I	842-07-9	1-Phenylazo-2-naphtholSolvent Yellow14	Carcinogen	Carcinogenicity(Category 2)	<b>Carcinogen</b>	
Sulprostone	60325-46-4	CP-34089, SHB-286	Hazardous drug	GHS Cat. 1B reproductive hazards	<b>NIOSH Table 3 (similar effects)</b>	
Sumatriptan	103628-48-4	ALSUMA	Hazardous drug	GHS Cat. 1B reproductive hazards	<b>NIOSH Table 3 (similar effects)</b>	
Sunitinib	341031-54-7	Sutent, SU11248	Hazardous drug	Reproductive hazard, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Tacrolimus	104987-11-3	fujimycin, FK506	Hazardous drug, immunosuppressive agent	increased risk of lymphomas, potential reproductive effects, FDA pregnancy cat. C	<b>NIOSH Table 2</b>	
Tafloprost	209860-87-7	Saflutan, Taflotan, Tapros	Hazardous drug	GHS Cat. 1B Reproductive toxicity, GHS Cat 1 Specific target organ toxicity (repeated exposure)	<b>NIOSH Table 3 (similar effects)</b>	
Tamoxifen	10540-29-1	Nolvadex, Genox, Tamifen, TMX, chow (Envigo)	Anti-neoplastic drug	IARC Group 1 carcinogen, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	<b>Special waste water requirements.</b> Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
Tedizolid Phosphate	856867-55-5	TR-700, Sivextro	Hazardous drug ( antibiotic)	Reproductive effects, GHS Cat. 2 Repo effects	<b>NIOSH Table 3 (similar effects)</b>	
Temozolomide	85622-93-1	TMZ, Temodar, Temodal and Temcad	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	<b>Special waste water requirements.</b> Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
Temsirolimus	162635-04-3	CCI-779, Torisel	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Teniposide	29767-20-2	Vumon	Anti-neoplastic drug	IARC Group 2A probably carcinogenic, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Testosterone	58-22-0	trans-testosterone, 17β-Hydroxy-3-oxo-4-androstene	Male hormone, anabolic steroid, hazardous drug	GHS Cat. 2 carcinogen, cat. 1B reproductive effects	<b>Carcinogen, NIOSH Table 3 (similar effects)</b>	
Tetanus Toxin	676570-37-9		Toxin	Acute Tox.(O) 2: H300Acute Tox.(I) 2: H330Acute Tox.(D) 3: H311	<b>NIOSH Table 2 (similar effects)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Tetrahydrocannabinol	1972-083	THC, Delta-9-tetrahydrocannabinol, Dronabinol, Marinol	Hazardous chemical	GHS Cat. 2 reproductive toxicity	<b>NIOSH Table 3 (similar effects)</b>	* respiratory / skin sensitization
Tetrodotoxin	4368-28-9	anhydrotetrodotoxin, 4-epitetrodotoxin, tetradonic acid, TTX	Sodium channel blocker, Highly toxic	Highly toxic by inhalation, oral and dermal routes	<b>Select agent. Contact EHS for required handling procedures and controls.</b>	
Thimerosal	54-64-8	Mercury((o - carboxyphenyl)thio)ethyl sodium salt, Merthiolate	Organomercury compound, toxic chemical	neurological and behavioral effects, GI symptoms, metabolic effects	<b>NIOSH Table 2 (similar effects)</b>	
Thioacetamide	62-55-5	Ethanethioamide	Hazardous chemical	Hepatotoxin, Carcinogen GHS Cat. 1B	<b>Carcinogen</b>	
Thioguanine	154-42-7	6-TG, Tioguanine	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Thio-tepa	52-24-4	<i>N,N',N''</i> -triethylenethiophosphoramidate	Anti-neoplastic drug	IARC Group 1 carcinogen, teratogen, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Timolol (maleate)	26921-17-5		Hazardous drug	GHS Cat 1 Specific target organ toxicity (repeated exposure )	<b>NIOSH Table 2 (similar effects)</b>	
Tiotropium (bromide)	136310-93-5	<i>(1.alpha.,2.beta.,4.beta.,5.alpha.,7.beta.)-7-[(2-hydroxy-2,2-dimethyl-3-oxa-9-azoniatricyclo[3.3.1.0<sup>2,4</sup>]nonane, monobromide; BA 679B</i>	Hazardous Drug	Toxic To Reproduction, Category 2 Specific Target Organ Toxicity (repeated exposure), Category	<b>NIOSH Table 3 (similar effects)</b>	
Tofacitinib Citrate	540737-29-9	Tofacitinib citrate	Hazardous chemical	GHS CAT 1B reproductive hazard, Carcinogen	<b>Carcinogen/NIOSH Table 3 (similar effects)</b>	* Don't confuse with Tofacitinib CAS: 477600-75-2 / mod / low hazard (7/26/22)
Tolterodine (tartrate)	124937-52-6	<i>2-[[[1R]-3-[bis(1-methylethyl)amino]-1-phenylpropyl]-4-methylphenol, 2R,3R-dihydroxybutanedioate; Detrol LA®; PNU 200583</i>	Hazardous Drug	Toxic To Reproduction, Category 2	<b>NIOSH Table 3 (similar effects)</b>	
Toluene	108-88-3		Hazardous chemical	GHS Reproductive toxicity Cat 2, GHS Specific organ toxicity Cat. 2(repeat exposure)	<b>NIOSH Table 2 (similar effects)</b>	
Toluene 2,4-diisocyanate	584-84-9	2,4-Diisocyanatotoluene, 4-Methyl-m-phenylene diisocyanate	Hazardous chemical	GHS Cat. 2 carcinogen, severe respiratory and skin sensitizer <i>*Note: skin contact may result in respiratory sensitization.</i>	<b>Carcinogen</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Topotecan	123948-87-8	Hycamtin	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Toremifene	89778-26-7	Fareston, 4-Chlorotamoxifen	Hazardous drug, antineoplastic, antiestrogen	FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Trabectedin	114899-77-3	ecteinascidin 743, ET-743, Yondelis®	Anti-neoplastic drug	cytotoxic	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Trametinib	871700-17-3	Mekinist	Anti-neoplastic drug	Reproductive effects,embryotoxic, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Trastuzumab	180288-69-1	Herceptin	Anti-neoplastic drug	Organ toxicity at low doses, teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 1)</b>	
Treosulfan	299-75-2	1,2,3,4-Butanetetrol, 1,4-dimethanesulfonate, Threitol 1,4-dimethanesulfonate, Threitol 1,4-bismethanesulfonate; L-Threitol 1,4-bis(methanesulfonate); Threosulphan; Treosulphan; Tresulfan	Hazardous drug	GHS Repro Tox. Cat.2, Germ cell mutagen Cat. 1B, Carc Cat. 1A	<b>NIOSH Table 1 (similar effects), Carcinogen</b>	
Tretinoic Acid	302-79-4	ALTRA, all-trans retinoic acid, Tretinoin, Retinoic acid	Hazardous drug	Reproductive toxicity GHS Cat. 1A	<b>NIOSH Table 3 (similar effects)</b>	
Triamcinolone	124-94-7	(11.beta.,16.alpha.)-9-fluoro-11,16,17,21-tetrahydroxy-pregna-1,4-diene-3,20-dione; NSC13397	Hazardous Chemical	Carcinogenicity, Category 2	<b>Carcinogen</b>	
Triazolam	28911-01-5	Halcion	Hypnotic	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 3)</b>	
Triethylenemelamine	51-18-3	TEM	Hazardous chemical, antineoplastic	Genetic effects, acute toxicity	<b>UCAR provided list - NIOSH Table 1 (similar effects)</b>	
Trifluridine / Tipiracil combination	733030-01-8	Lonsurf	Anti-neoplastic drug	Embryo-fetal lethality	<b>NIOSH Table 1</b>	
Triptorelin	57773-63-4	Decapeptyl, Gonapeptyl	Anti-neoplastic drug	Reproductive hazard, FDA pregnancy category X	<b>NIOSH Table 1</b>	
Trypan Blue	72-57-1	C.I. 23850; Direct Blue 14; Niagara Blue 3B	Hazardous chemical, Azo dye	GHS Cat. 1B	<b>Carcinogen</b>	
UR214-9	NA	* structural backbone of Forchlorfenuron (CAS: 68157-60-8)	Hazardous chemical	GHS Cat 2. carcinogen	<b>Carcinogen</b>	
UR238	NA	Structure similar to carfilzomib per Rakesh Singh	Hazardous Chemical	Antineoplastic, GHS Cat 2. reproductive toxicant	<b>NIOSH Table 1 (similar effects)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

<b>Chemical name</b>	<b>CAS:</b>	<b>Synonyms</b>	<b>Category</b>	<b>Hazards</b>	<b>Hazard Class / Exposure Controls *refer to Exp. Controls tab</b>	<b>Notes:</b>
Urethane	51-79-6	carbamic acid ethyl ester, Ehtylurethane, Ethyl carbamate	Hazardous Chemical	Carcinogenicity (cat 1B)	<b>Carcinogen</b>	
Urofollitropin	146479-72-3	Bravelle, Fertinex	Ovulation stimulator	Teratogenic and developmental effects	<b>NIOSH list: Proposed update Feb. 2018 (Table 3)</b>	
Valproic Acid	<a href="#">1069-66-5</a>	Valproic acid sodium salt; 2-propylpentanoic acid sodium, Sodium 2-propylpentanoate, Sodium valproate	Hazardous Drug	Reproductive toxicity(Category 2), H361d	<b>NIOSH Table 3 (similar effects)</b>	
Valrubicin	56124-62-0	Valstar	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. C	<b>NIOSH Table 1</b>	
Vandetanib	443913-73-3	Caprelsa	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Velcade	179324-69-7	<b>Bortezomib</b> , Chemobort, Bortecad	Hazardous drug, antineoplastic	FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Vemurafenib	918504-65-1	Zelboraf	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Venetoclax	1257044-40-8	Venclexta	anti-neoplastic drug	Repo 2, STOT 1	<b>NIOSH Table 1</b>	
Verapamil	152-11-4	Verapamil hydrochloride	hazardous drug	GHS Cat. 2 Acute toxicity (inhalation), Cat. 2 Reproductive toxicity	<b>NIOSH Table 2 (similar effects)</b>	
Victoza	204656-20-2	Liraglutide, Saxenda	Hazardous drug	GHS Cat. 2 carcinogem, Respiratory and skin sensitizer	<b>Carcinogen</b>	
Vinblastine	865-21-4	Velban	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Vincristine	57-22-7	Leurocristine, Oncovin	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Vinorelbine	71486-22-1	Navelbine	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Vismodegib	879085-55-9	Erivedge	Anti-neoplastic drug	Reproductive effects, Black-Box warning embyo-fetal death,	<b>NIOSH Table 1</b>	
Vorinostat	149647-78-9	suberanilohydroxamic acid, Zolinza	Anti-neoplastic drug	Reproductive effects, FDA pregnancy cat. D	<b>NIOSH Table 1</b>	
Water Pipe (nicotine) Smoke					<b>NIOSH Table 2 (similar effects)</b>	Copy text from previous UCAR letter discussing delivery device
Wortmannin	19545-26-7		Hazardous chemical	GHS Cat 1 Acute toxicity (oral & inhalation), GHS Cat 2 Acute toxicity (dermal)	<b>NIOSH Table 2 (similar effects)</b>	

**Hazardous Chemical Agents (anti-neoplastic, carcinogens, reproductive hazards, neurotoxic)**

Chemical name	CAS:	Synonyms	Category	Hazards	Hazard Class / Exposure Controls *refer to Exp. Controls tab	Notes:
Wy 14643		[[[4-chloro-6-[(2,3-dimethylphenyl)amino]-2-pyrimidinyl]thio]-acetic acid; Pirinixic Acid;	Hazardous chemical	Carcinogenicity, Category 1B	<b>Carcinogen</b>	
Xylazine	7261-61-7		Anesthetic		<b>Therapeutic</b>	Chemical review not required, unless used as an experimental drug
Xylenes	1330-20-7	Xylene mixture of isomers	Hazardous chemical	GHS specific organ toxicity Cat 2. Central nervous system	<b>NIOSH Table 2 (similar effects)</b>	
Yohimbine (hydrochloride)	65-19-0	Y3125, 17-Hydroxyyohimban-16-carboxylic acid methyl esterhydrochloride	Hazardous chemical	GHS Acute toxicity Cat 2, cardiac, CNS, gastrointestinal effects	<b>NIOSH Table 2 (similar effects)</b>	
Zidovudine	30516-87-1	ZDV, Azidothymidine, AZT	antiretroviral	Suspected carcinogen, GHS Cat. 2, IARC Gp. 2B	<b>Carcinogen</b>	<b>Special waste water requirements.</b> Contact UR Env. Compliance / Waste Management Group. Need to collect any leftover drinking water to dispose of as HazWaste (no cutoff amt)
Ziv-Alibercept	862111-32-8	Zeltrap	Anti-neoplastic drug	Reproductive effects, fetal malformations in animals, FDA pregnancy cat. C	<b>NIOSH Table 1</b>	
β-Estradiol	50-28-2	Estradiol, 3,17β-Dihydroxy-1,3,5(10)-estratriene, 3,17β-diol Dihydrofolliculin	Carcinogen	GHS Cat. 2 carcinogen, GHS Cat. 1A Reproductive hazard	<b>Carcinogen</b>	
β-Estradiol 3-benzoate	50-50-0	3-Benzoyloxy-17β-estrol 3,17β-Dihydroxy-1,3,5(10)-estratriene 3-benzoate 1,3,5(10)-Estratriene-3,17β-diol 3-benzoate	Hazardous drug	GHS Cat. 2 carcinogen, GHS Cat1B reproductive hazard	<b>Carcinogen</b>	