

## STANFORD TGO DATA TABLE

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### WARNING

If you use or handle a liquid or solid material as a gas, consult with the University Occupational Health & Safety Program at EH&S (723-0448) to determine if the material is regulated under TGO.

Santa Clara County Toxic Gas Ordinance regulates materials (i.e. gases, liquids and solids) if the material falls under the definition of Class I, Class II or Class III material and meets either of the following criteria:

- (1) It is shipped in compressed gas cylinders, and the material is or becomes or acts as a gas upon release at normal temperature and pressure (70F and 760 mm Hg) or;
- (2) The material is used or handled as a gas whether or not the material meets the definition of a compressed gas in Article 2 of the TGO or 49 CFR Section 173.300(a).

Gasses that meet the definition of a toxic gas are highlighted below.

GDN#	State	Name	CAS Number	VP	MW	Tox Type	LC <sub>50</sub> .units in ppm unless otherwise noted.	TGO Class (Pure)	Molar Percentage			Storage Group	Data Source
									Diluted to Class 2	Diluted to Class 3	Diluted to Not Regulated		
1955	G	1,1,1-TRIFLUOROACETONE	421-50-1					NR				L	TGO Class Assigned by CIH. No LC or IDLH data available.
2968	G	1,1-DIFLUOROETHANE	75-37-6	760	66.05	LC <sub>50</sub> , MOUSE	1686848	NR				L	
2969	G	1,1-DIFLUOROETHYLENE	75-38-7	760	64.04	LCLO, RAT	2560000	NR				L	
3025	G	1,2-DICHLOROTETRAFLUOROETHANE	76-14-2	760	170.9	IDLH	150000	NR				G	
175	G	1,2-DIFLUOROETHYLENE			64.04	LCLO, RAT	2560000	NR				L	
674	G	1,3-BUTADIENE	106-99-0	760	54.09	LC <sub>50</sub> , RAT	220000	NR				L	
<b>12977</b>	<b>G</b>	<b>1,3-HEXAFLUOROBUTADIENE</b>	<b>685-63-2</b>	<b>760</b>	<b>162</b>	<b>LC<sub>50</sub>, RAT</b>	<b>1334</b>	<b>II</b>		<b>44.46</b>	<b>26.67</b>	<b>G</b>	<b>MSDS from Matheson Tri-Gas</b>
673	G	1-BUTENE	106-98-9	760	56.11			NR				L	Asphyxiant. No LC or IDLH data available.
13714	G	1-CHLORO-1,1,2,2-TETRAFLUOROETHANE (HCFC-124A)	354-25-6		136.5	LC <sub>50</sub> , RAT	219095.8	NR				L	
13715	G	1-CHLORO-1,1-DIFLUOROETHANE (HCFC-142B)	75-68-3		100.5	LC <sub>50</sub> , RAT	499955.2	NR				L	
6080	G	2,2-DIMETHYLPROPANE	463-82-1	760	72.15	LCLO, MOUSE	17339020	NR				L	
<b>13076</b>	<b>G</b>	<b>2-BUTENE, MIXED ISOMERS</b>	<b>107-01-7</b>	<b>760</b>	<b>56.11</b>	<b>LC<sub>50</sub>, RAT</b>	<b>690 mg/l/h</b>	<b>NR</b>				<b>L</b>	<b>RTECS-EM2932000</b>
13770	G	2-CHLORO-1,1,1,2-TETRAFLUOROETHANE (HCFC-124)	2837-89-0		136.5	LC <sub>50</sub> , RAT	285000	NR				J	TGO Class Assigned by CIH
13771	G	2-CHLORO-1,1,1-TRIFLUOROETHANE	75-88-7		118.5	LC <sub>50</sub> , RAT	285000	NR				J	TGO Class Assigned by CIH
13772	G	2-CHLORO-1,1,2-TETRAFLUOROETHANE (HCFC-124)	2837-89-3			LC <sub>50</sub> , RAT	285000	NR				J	TGO Class Assigned by CIH
4645	G	2-METHYLPROPANE	75-28-5	760	58.12	LC <sub>50</sub> , RAT	285000	NR				L	

907	G	2-METHYLPROPENE	115-11-7	760	56.11	LC50, RAT	541657.4	NR					L	
13800	G	3-METHYL-1-BUTENE	563-45-1		70.14			NR					L	Asphyxiant. No LC or IDLH data available.
2945	G	ACETALDEHYDE	75-07-0	740	44.05	IDLH	20000	NR					X	
2316	G	ACETYL FLUORIDE	557-99-3	760	62	LC50, MOUSE	2.50 mg/l/h	II		8.32	4.99		D	AP2800000, no LC <sub>50</sub> rat data.
2923	G	ACETYLENE	74-86-2	760	26.04			NR					L	Asphyxiant. No LC or IDLH data available.
11798	G	ACETYLENE-D2	N/A	760	28.06			NR					L	Asphyxiant. No LC or IDLH data available.
2017	G	ALLENE	463-49-0	760	40.07			NR					L	TGO Class Assigned by CIH. No LC or IDLH data available.
3060	G	AMMONIA GAS	7664-41-7	760	17.03	LC50, RAT	4000	III			79.99		A	UNIDOCS UN-015
1284	G	AMMONIA-15N	13767-16-3	760	18.02	LC50, RAT	4000	III			79.99		A	
11799	G	AMMONIA-D3	13550-49-7	760	20.06	LC50, RAT	4000	III			79.99		A	Ammonia data used
4225	G	ANTIMONY HYDRIDE	7803-52-3	760	124.8	LC50, RAT	20	I	10	0.67	0.4		B	
5572	G	ARGON, GAS	7440-37-1	760	39.95			NR					G	Asphyxiant. No LC or IDLH data available.
12582	G	ARGON, LIQUEFIED	7440-37-1	760	39.95			NR					G	Asphyxiant. No LC or IDLH data available.
12123	G	ARSENIC PENTAFLUORIDE	7784-36-3	760	169.9	LC50, RAT	20	I	9.99	0.66	0.39		E	
6074	G	ARSINE	7784-42-1	760	77.95	LC50, RAT	20	I	9.99	0.66	0.39		X	UNIDOCS UN-015
36	L	BETA-DIPHENYLPHOSPHINOETHYLTRIETHOXYSILANE	18586-39-5										G	No LC or IDLH data available.
12976	G	BIS(TRIFLUOROMETHYL)PEROXIDE	927-84-4	760	170	LC50, RAT	10	I	5	0.33	0.2		E	
	G	BORON TRIBROMIDE	10294-33-4			LC50, RAT	380	II						UNIDOCS UN-015
5192	G	BORON TRICHLORIDE	10294-34-5	760	117.2	LC50, RAT	2541	II		84.7	50.82		E	
6208	G	BORONTRIFLUORIDE, GAS	7637-07-02	760	67.81	LC50, RAT	806	II		26.87	16.12		E	UNIDOCS UN-015
3102	L	BROMINE	7726-95-6	760		LC50, RAT	113	I	56.49	3.76	2.25		E	UNIDOCS UN-015
13884	G	BROMINE CHLORIDE	13863-41-7		115.4	LC50, RAT	290	II		9.67	5.8		E	
10207	G	BROMOCHLORODIFLUOROMETHANE	353-59-3	760	165.4	LC50, RAT	100000	NR					G	
2921	G	BROMOMETHANE	74-83-9	760	94.94	LC50, RAT	811.14	II		27.03	16.22		L	RTECS -PA4900000
13887	G	BROMOTRIFLUORETHYLENE	598-73-2		160.9			NR					B	TGO Class Assigned by CIH. No LC or IDLH data available.
2990	G	BROMOTRIFLUOROMETHANE	75-63-8	760	148.9	LC50, RAT	42000	NR					G	
672	G	BUTANE	106-97-8	760	58.12	LC50, RAT	5555	NR					L	
6651	G	CARBON DIOXIDE, (SOLID)	124-38-9	760	44.01	IDLH	400000	NR					G	
4530	G	CARBON DIOXIDE, GAS	124-38-9	760	44.01	IDLH	400000	NR					G	
2667	G	CARBON MONOXIDE, GAS	630-08-0	760	28.01	LC50 RAT	3760	III			75.2		L	UNIDOCS UN-015
9623	G	CARBON MONOXIDE, LIQUEFIED	630-08-0	760	28.01	LC50 RAT	3614	III			72.27		L	RTECS - FG3500000
11821	G	CARBON MONOXIDE-18O	4906-87-0	760	30.03	LC50 RAT	3614	III			72.27		L	RTECS - FG3500000
2997	G	CARBON TETRAFLUORIDE	75-73-0	760	88.01	LCLO, RAT	4475000	NR					G	
11010	G	CARBON-13C MONOXIDE	1641-69-6	760	29.02	LC50, RAT	3760	III			75.2		L	

103	G	CARBONYL CHLOROFLUORIDE	353-49-1	760	82.46				II		53.33	32	L	TGO Class Assigned by CIH. No LC or IDLH data available.
1870	G	CARBONYL FLUORIDE	353-50-4	760	66.01	LC50, RAT	360		II		12	7.2	L	
12894	G	CARBONYL SULFIDE	463-58-1	760	60.07	LC50, RAT	2140		II		71.33	42.79	D	RTECS -FG6400000
509	G	CHLORINE DIOXIDE, GAS	10049-04-4	760	67.45	LC50, RAT	250		II		8.33	5	E	UNIDOCS UN-015
13919	G	CHLORINE MONOXIDE	7791-21-1		67.45				I	50	3.33	2	J	TGO Class Assigned by CIH. No LC or IDLH data available.
9478	G	CHLORINE TRIFLUORIDE	7790-91-2	760	92.45	LC50, RAT	299		II		9.97	5.98	E	UNIDOCS UN-015
9624	G	CHLORINE, (LIQUEFIED)	7782-50-5	760	70.91	LC50, RAT	293		II		9.77	5.86	E	UNIDOCS UN-015
3158	G	CHLORINE, GAS	7782-50-5	760	70.91	LC50, RAT	293		II		9.77	5.86	E	UNIDOCS UN-015
13922	G	CHLOROFLUOROMETHANE	593-70-4		68.48				NR				J	TGO Class Assigned by CIH. No LC or IDLH data available.
2924	G	CHLOROMETHANE	74-87-3	760	50.49	LC50, RAT	8300		NR				L	
13926	G	CHLOROTETRAFLUOROETHANE	63938-10-3		136.5				NR				J	TGO Class Assigned by CIH. No LC or IDLH data available.
3312	G	CHLOROTRIFLUOROETHYLENE	79-38-9	760	116.5	LC50, RAT	2000		II		66.67	40	L	
12584	G	CHLOROTRIFLUOROMETHANE	75-72-9	760	104.5				NR				G	Asphyxiant. No LC or IDLH data available.
5367	G	CIS-2-BUTENE	590-18-1	760	56.11				NR				L	TGO Class Assigned by CIH. No LC or IDLH data available.
6133	G	CYANOGEN	460-19-5	760	52.04	LC50, RAT	350		II		11.67	7	C	
2109	G	CYANOGEN CHLORIDE	506-77-4	760	61.48	LC50, RAT	1.2 mg/l/h		I	59.99	3.99	2.39	C	RTECS-GT2275000
2954	G	CYCLOPROPANE	75-19-4	760	42.08	LC50, RAT	220000		NR				L	
12045	G	DEUTERIUM BROMIDE, GAS	13536-59-9	760	81.93	IDLH	300		II		10	6	E	
3079	G	DEUTERIUM CHLORIDE, GAS	5/7/7698	760	37.47	LC50, RAT	3120		III			62.4	E	
11800	G	DEUTERIUM SULFIDE	13536-94-2											
32	G	DEUTERIUM, GAS	7782-39-0	760	4.032				NR				L	Asphyxiant. No LC or IDLH data available.
1842	G	DIAZOMETHANE	334-88-3	760	42.04	IDLH	20		I	10	0.67	0.4	J	
4219	G	DIBORANE	19287-45-7	760	27.67	LC50, RAT	80		I	40	2.67	1.6	B	UNIDOCS UN-015
2988	G	DIBROMODIFLUOROMETHANE	75-61-6	620	209.8	LC50, RAT	27000		NR				L	
2996	G	DICHLOROACETYLENE	7572-29-4	760	94.92	LC50, MOUSE	45.6		I	22.79	1.51	0.91	K	RTECS - AP1080000
2995	G	DICHLORODIFLUOROMETHANE	75-71-8	760	120.9	LC50, MOUSE	3867435		NR				J	
6125	G	DICHLOROFLUOROMETHANE	75-43-4	760	102.9	LC50, RAT	99800		NR				G	
442	G	DICHLOROSILANE	4109-96-0	760	101	LC50, RAT	314		II		10.47	6.28	B	UNIDOCS UN-015
1060	G	DIMETHYLAMINE GAS	124-40-3	760	45.09	LC50, RAT	11120.7		NR				A	
12983	G	DIMETHYLSILANE	111-74-6	760	60.16				NR				L	
4427	L	DIPHOSGENE	503-38-8	760	197.8	LC50, RAT	121.13		I	60.56	4.03	2.42	J	MSDS from ChemWatch.
4644	G	ETHANE, (LIQUEFIED)	74-84-0	760	30.07				NR				L	TGO Class Assigned by CIH. No LC or IDLH data available.

4643	G	ETHANE, GAS	74-84-0	760	30.07										L	Asphyxiant. No LC or IDLH data available.
5912	G	ETHRANE	13838-16-9	760	184.5	LC50, RAT	24248.7	NR							J	
13218	G	ETHYL ACETYLENE	107-00-6	760	54.09			NR							L	TGO Class Assigned by CIH. No LC or IDLH data available.
2938	G	ETHYL CHLORIDE	75-00-3	760	64.52	LC50, RAT	81659.7	NR							L	
12979	G	ETHYL FLUORIDE	353-36-6	760	48.07	LCLO, RAT	5200000	NR							L	
13431	G	ETHYL NITRITE	109-95-5		75.07	LC50, RAT	320	II		10.67		6.4			K	
11801	G	ETHYL-D5-AMINE		760	50.13	LC50, RAT	5540	NR							A	
5981	G	ETHYLENE	74-85-1	760	28.05			NR							L	Asphyxiant. No LC or IDLH data available.
2956	G	ETHYLENE OXIDE	75-21-8	760	44.05	LC50, RAT	4350	III				87			L	UNIDOCS UN-015
12980	G	ETHYLSILANE	2814-79-1	760	60.17			NR							L	MSDS from Sigma Aldrich.
4577	G	FLUORINE	7782-41-4	760	38	LC50, RAT	185	I	92.5	6.17		3.7			E	UNIDOCS UN-015
13075	G	FLUOROMETHANE	593-53-3	760	34.04			NR							L	Asphyxiant. No LC or IDLH data available.
9627	G	FORMALDEHYDE, GAS	50-00-0	760	30.03	LC50, RAT	0.66	I	0.32	0.02		0.01			L	RTECS LP8925000
3026	G	FREON 115	76-15-3	760	154.5	LC50, RAT	1548635	NR							G	
4220	G	GERMANIUM HYDRIDE or GERMANE	7782-65-2	760	76.6	LC50, RAT	622	II		20.73		12.44			B	UNIDOCS UN-015
6653	G	HELIUM, (LIQUEFIED)	7440-59-7	760	4			NR							G	Asphyxiant. No LC or IDLH data available.
6169	G	HELIUM, GAS	7440-59-7	760	4.003			NR							G	Asphyxiant. No LC or IDLH data available.
3433	L	HEXACHLORO-1,3-BUTADIENE	87-68-3	760	260.7	LC50, RAT	118.15	I	59.07	3.93		2.36			D	RTECS EJ0700000
12978	G	HEXAFLUORO-2-BUTYNE	692-50-2	760	162			NR							L	Asphyxiant. No LC or IDLH data available.
5461	G	HEXAFLUOROACETONE	684-16-2	760	166	LC50, RAT	422.67	II		14.08		8.45			J	RTECS UC2450000
5463	G	HEXAFLUOROCYCLOBUTENE	697-11-0	760	162			NR							L	
7178	G	HEXAFLUOROETHANE	76-16-4	760	138	LC50, RAT	282842.7	NR							G	
5464	G	HEXAFLUOROPROPENE	116-15-4	760	150	LC50, RAT	19.8 mg/l/h	II		65.99		39.59			J	RTECS UD0350000
4532	G	HYDROGEN BROMIDE, GAS	10035-10-6	760	80.92	LC50, RAT	2860	II		95.33		57.2			F	UNIDOCS UN-015
4535	G	HYDROGEN CHLORIDE, GAS	7647-01-0	760	36.46	LC50, RAT	2810	II		93.67		56.2			F	UNIDOCS UN-015
6166	G	HYDROGEN CYANIDE, GAS	74-90-8	741	27.03	LC50, RAT	40	I	20	1.33		0.8			C	UNIDOCS UN-015
4525	G	HYDROGEN FLUORIDE GAS	7664-39-3	760	20.01	LC50, RAT	1300	II		43.33		26			F	UNIDOCS UN-015
1209	G	HYDROGEN GAS	1333-74-0	760	2.016			NR							L	Asphyxiant. No LC or IDLH data available.
7833	G	HYDROGEN IODIDE, ANHYDROUS GAS	10034-85-2	760	127.9	LC50, RAT	2860	II		95.33		57.2			F	
4221	G	HYDROGEN SELENIDE GAS	7783-07-5	760	80.98	LCLO, RAT	2	I	0.99	0.06		0.03			B	UNIDOCS UN-015
3168	G	HYDROGEN SULFIDE	7783-06-4	760	34.08	LC50, RAT	712	II		23.73		14.24			L	UNIDOCS UN-015
12046	G	HYDROGEN, (LIQUEFIED)	1333-74-0	760	2.016			NR							L	Asphyxiant. No LC or IDLH data available.

11797	G	HYDROGEN-DEUTERIUM (1:1)		N/A	7603.024									L	Asphyxiant. No LC or IDLH data available.
2018	G	KETENE	463-51-4	76042.04		LC50, MOUSE	16.1	I	8.04	0.53	0.32			B	RTECS OA7700000, 5 ppm (IDLH)
5031	G	KRYPTON	7439-90-9	76083.8										G	Asphyxiant. No LC or IDLH data available.
6399	G	METHANE	74-82-8	76016.04										L	Asphyxiant. No LC or IDLH data available.
6143	G	METHANETHIOL	74-93-1	76048.11		LC50, RAT	1350	II		45	27			L	
	G	METHYL BROMIDE	74-83-9	760		LC50, RAT	1007	II							UNIDOCS UN-015
24968	G	METHYL CHLOROSILANE	993-00-0	80.6		LC50, RAT	600	II		20	12			J	
906	G	METHYL ETHER	115-10-6	76046.1		LC50, RAT	163754.5	NR						L	
2620	L	METHYLISOCYANATE	624-83-9			LC50-RAT	22	I	10.99	0.73	0.43			B	UNIDOCS-UN-015
		METHYL MERCAPTAN	74-93-1	760		LC50-RAT	1350	II							UNIDOCS-UN-015
11806	G	METHYL VINYL ETHER	107-25-5	76058.08										L	
5519	G	METHYLAMINE, ANHYDROUS	74-89-5	76031.06		LC50, RAT	7010	NR						A	
12981	G	METHYLSILANE	992-94-9	76046.15										L	
5927	G	MONOETHYLAMINE, ANHYDROUS	75-04-7	76045.09		LC50, RAT	16000	NR						A	
5319	L	MUSTARD GAS	505-60-2	760159.1		LC50, RAT	1.72	I	0.85	0.05	0.03			J	RTECS - WQ0900000
10406	G	NATURAL GAS		N/A	76050									L	Asphyxiant. No LC or IDLH data available.
5571	G	NEON	1/9/7440	76020.18										G	Asphyxiant. No LC or IDLH data available.
1240	L	NICKEL CARBONYL	13463-39-3	760		LC50, RAT	18	I	8.99	0.59	0.35			B	UNIDOCS UN-015
4528	G	NITROGEN	7727-37-9	76028.01										G	Asphyxiant. No LC or IDLH data available.
6649	G	NITROGEN DIOXIDE, (LIQUEFIED)	10102-44-0	76046		LC50, RAT	115	I	57.5	3.83	2.3			E	UNIDOCS-UN-015
6650	G	NITROGEN DIOXIDE, GAS	10102-44-0	76046		LC50, RAT	0.22 mg/l/h	I	10.99	0.73	0.43			E	RTECS - QW9800000
6650	G	NITROGEN DIOXIDE, GAS	10102-44-0	76046		LC50, RAT	116.93	I	58.46	3.89	2.33				RTECS - QW9800000
6302	G	NITROGEN MONOXIDE OR NITRIC OXIDE	10102-43-9	76030.01		LC50, RAT	115	I	57.5	3.83	2.3			E	UNIDOCS UN-015
9769	G	NITROGEN TETROXIDE, (LIQUEFIED)	10544-72-6	76092.02		LC50, RAT	115	I	57.5	3.83	2.3			E	
9768	G	NITROGEN TETROXIDE, GAS	10544-72-6	76092.02		LC50, RAT	27.9	I	13.94	0.92	0.55			E	RTECS - QX1575000
6300	G	NITROGEN TRIFLUORIDE	7783-54-2	76071.01		LC50, RAT	6700	NR						E	
9694	G	NITROGEN TRIOXIDE	10544-73-7	76076.02		LC50, RAT	106	I	52.99	3.53	2.11			E	Unverified ChemTracker data.
13590	G	NITROSYL CHLORIDE	2696-92-6	76065.46		LClo cat	35	I	17.49	1.16	0.69			E	CGA data.
13592	G	NITROUS ACID, ETHYL ESTER	109-95-5	75.07		LC50, RAT	320	II		10.67	6.4			K	
6298	G	NITROUS OXIDE	10024-97-2	76044.01										E	Exempt by TGO Guidelines. No LC or IDLH data available.
9707	G	NITROUS OXIDE, (LIQUEFIED)	10024-97-2	76044.01										E	Exempt by TGO Guidelines. No LC or IDLH data available.

13074	G	OCTAFLUOROCYCLOBUTANE	115-25-3	760	200	LCLO, MOUSE	36291550	NR						G	
4430	L	OXALYL BROMIDE	15219-34-8	760	215.8			II		53.33		32	D	TGO Class Assigned by CIH. No LC or IDLH data available.	
9477	G	OXYGEN DIFLUORIDE	7783-41-7	760	54	LC50, RAT	2.6	I	1.29	0.08		0.05	E	RTECS RS2100000	
5573	G	OXYGEN, GAS	7782-44-7	760	32	LCLO, HUMAN	16463290	NR					E		
10047	G	OXYGEN, LIQUID	7782-44-7	760	32	LCLO, HUMAN	16463290	NR					E		
477	G	OZONE GAS	10028-15-6	760	48	LC50, RAT	9.6	I	4.79	0.31		0.19	E	RTECS - RS8225000	
7179	G	PARAFFIN HYDROCARBONS, GAS			60			NR					L	TGO Class Assigned by CIH. No LC or IDLH data available.	
9475	G	PERCHLORYL FLUORIDE	7616-94-6	760	102.5	LC50, RAT	770	II		25.67		15.4	E		
13629	G	PERFLUOROISOBUTYLENE	382-21-8		200	LC50, RAT	1.2	I	0.61	0.04		0.02	J		
6286	G	PERFLUOROPROPANE	76-19-7	760	188			NR					G	Asphyxiant. No LC or IDLH data available.	
2972	G	PHOSGENE, GAS	75-44-5	760	98.92	LC50, RAT	5	I	2.5	0.17		0.1	J	UNIDOCS UN-015	
3260	G	PHOSPHINE	7803-51-2	760	34	LC50, RAT	20	I	10	0.67		0.4	B	UNIDOCS UN-015	
465	L	PHOSPHOROUS OXYCHLORIDE	10025-87-3	760		LC50, RAT	96	I	47.99	3.19		1.91	B	UNIDOCS UN-015	
106	G	PHOSPHORUS PENTAFLUORIDE	7647-19-0	760	126	LC50, RAT	260	II		8.67		5.2	E	UNIDOCS UN-015	
3093	L	PHOSPHOROUS TRICHLORIDE	7719-12-2	760		LC50, RAT	208	II		6.93		4.15	B	UNIDOCS UN-015	
13653	G	PHOSPHORUS TRIFLUORIDE	7783-55-3		87.97			NR					X	TGO Class Assigned by CIH. No LC or IDLH data available.	
6401	G	PROPANE	74-98-6	760	44.1	IDLH	21000	NR					L		
9684	G	PROPANE, (LIQUEFIED)	74-98-6	760	44.1	IDLH	20000	NR					L		
4647	G	PROPENE	115-07-1	760	42.08			NR					L	Asphyxiant. No LC or IDLH data available.	
2937	G	PROPYNE	74-99-7	760	40.07	IDLH	17000	NR					L		
13966	G	RADON	10043-92-2		220			NR					J	TGO Class Assigned by CIH. No LC or IDLH data available.	
2973	G	REFRIGERANT 22	75-45-6	760	86.47	LC50, RAT	175000	NR					J		
13070	G	SELENIUM HEXAFLUORIDE	7783-79-1	760	193	LC50, RAT	50	I	25	1.67		1	F	UNIDOCS UN-015	
3263	G	SILANE, GAS	7803-62-5	760	32.12	LC50, RAT	19000	NR					B	Exempt by TGO Guidelines	
468	L	SILICON TETRACHLORIDE	10026-04-7	760		LC50, RAT	750	II		24.99		14.99	B	UNIDOCS UN-015	
6318	G	SILICON TETRAFLUORIDE	7783-61-1	760	104.1	LC50, RAT	450	II					E	UNIDOCS UN-015	
	G	STIBINE	7803-52-3	760		LC50, RAT	20	I						UNIDOCS UN-015	
2911	G	SULFUR DIOXIDE	7446-09-5	760	64.06	LC50, RAT	2520	II		84		50.4	J	UNIDOCS UN-015	
1683	G	SULFUR HEXAFLUORIDE	2551-62-4	760	146.1			NR					G	Exempt by TGO Guidelines. No LC or IDLH data available.	
13071	G	SULFUR PENTAFLUORIDE	5714-22-7	561	254.1	IDLH	10	I	5	0.33		0.2	G		
3179	G	SULFUR TETRAFLUORIDE	7783-60-0	760	108.1	LC50, RAT	40	I	20	1.33		0.8	E		
1710	G	SULFURYL FLUORIDE	2699-79-8	760	102.1	LC50, RAT	3020	III		66.06		60.4	E	UNIDOCS UN-015	

11093	G	TELLURIUM HEXAFLUORIDE	7783-80-4	760	241.6	LC50, RAT	25	I	12.5	0.83	0.5	J	UNIDOCS UN-015
918	G	TETRAFLUROETHYLENE	116-14-3	760	100	LC50, RAT	80000	NR				L	
2978	L	TITANIUM TETRACHLORIDE	7550-45-0	760		LC50, RAT	119	I	59.49	3.96	2.37	B	UNIDOCS UN-15
2618	G	TRANS-2-BUTENE	624-64-6	760	56.11			NR				L	TGO Class Assigned by CIH. No LC or IDLH data available.
2993	G	TRICHLOROMONOFUOROMETHANE	75-69-4	760	137.4	IDLH	20000	NR				G	
1872	G	TRIFLUOROACETYL CHLORIDE	354-32-5	760	132.5	LC50, RAT	1000	II		33.33	20	D	
4686	G	TRIFLUOROMETHANE	75-46-7	760	70.01			NR				G	Asphyxiant. No LC or IDLH data available.
1632	G	TRIFLUOROMETHYL IODIDE	2314-97-8	760	195.9			NR				J	TGO Class Assigned by CIH. No LC or IDLH data available.
12975	G	TRIFLUOROMETHYLHYPOFLUORITE	373-91-1	760	104							E	No LC or IDLH data available.
5518	G	TRIMETHYLAMINE	75-50-3	760	59.11	LC50, RAT	7000	NR				A	
14066	G	TRITIUM	10028-17-8		6.032			NR				L	Asphyxiant. No LC or IDLH data available.
12585	G	TUNGSTEN HEXAFLUORIDE	7783-82-6	760	297.9	LC50, RAT	217	II		7.23	4.34	F	UNIDOCS UN-015
14071	G	VINYL ACETYLENE	689-97-4		52.05	LC50, RAT	64729.7	NR				X	
2463	G	VINYL BROMIDE	593-60-2	760	107	LCLo, RAT	1322876	NR				L	
2940	G	VINYL CHLORIDE	75-01-4	760	62.5			NR				L	
2941	G	VINYL FLUORIDE	75-02-5	760	46.05			NR				L	
4646	G	XENON	7440-63-3	760	131.3			NR				G	Asphyxiant. No LC or IDLH data available.
4648	G	XENON, (LIQUEFIED)	7440-63-3	760	131.3			NR				G	Asphyxiant. No LC or IDLH data available.

### Table-related column information:

**SU#** -- Stanford University Number is a unique chemical identifier used in the [Stanford Chemical Safety Database](#).

**STATE** -- The physical state of the chemical designated by "G" for gas, "L" for liquid, and "S" for solid.

**NAME** -- A chemical name commonly used to identify the chemical. Note that most chemicals have several name synonyms; it is best to identify the chemical uniquely using the SU# and/or CAS Number.

**CAS Number** -- Chemical Abstract Service Number is a proprietary unique identifier used to absolutely identify a chemical.

**VP** -- Vapor Pressure (in mm of Hg) of the chemical.

**MW** -- Molecular Weight of the chemical.

**TOX TYPE** -- Toxicological information related to determining the lethal concentration (LC in PPM) or immediately dangerous to life and health (IDLH in PPM) level of a chemical. TYPE refers to the data source such as LC50 data based on a rat test group.

**EXPOSURE** -- Refers to the concentration (in PPM) to which the test group was exposed or the concentration at which an exposure becomes immediately dangerous to life and health. Exposure data are converted to LC50 Rat.

**TGO CLASS** -- The Toxic Gas Ordinance Class (Class I, Class II, Class III, or NR) designation for the pure chemical, i.e., 100% concentration.

**CLASS 2** -- The percent concentration below which a TGO Class I becomes a TGO Class II.

**CLASS 3** -- The percent concentration below which a TGO Class II becomes a TGO Class III.

**NR -- The percent concentration below which a TGO Class III becomes a TGO NOT REGULATED. Note that a pure Class I chemical diluted to below a concentration such that it is "not regulated" chemical still must meet the TGO provisions related to "flow limiting devices" and "fire extinguishing systems."**

**STORAGE GROUP -- There are 11 different groups (A B C D E F G J K L and X) that Stanford has identified for safe storage of chemicals. These are the same storage groups provided in the [Stanford Chemical Safety Database](#).**