

Declaration of Compliance with Regulations

Reed Semiconductor (including subsidiaries, affiliates and suppliers) hereby guarantees that our green products, parts, and packaging materials, directly or indirectly delivered to your company are in compliance with the requirements listed below.

RoHS 2.0 (EU 2015/863)

EU REACH (Registration, Evaluation and Authorization of Chemicals;

Halogen-Free (Comply with IEC 61249-2-21)

PFOS/PFOA Free

REACH Annex XVII and

XIV Sony SS-00259

Technical Standards

Directive of Packaging and Packaging Waste · 94/62/EC(PPW)

RoHS 2.0

List of restricted substances	max.
Cadmium (Cd)/ Cadmium Compounds	<0.01%
Lead (Pb)/ Lead Compounds	<0.1%
Mercury (Hg) / Mercury Compounds	<0.1%
Hexavalent-Chromium (Cr6+) Compounds	<0.1%
Polybrominated Biphenyls (PBBs)	<0.1%
Polybrominated Diphenyls Ethers (PBDEs)	<0.1%
Bis(2-Ethylhexyl) phthalate (DEHP)	<0.1%
Benzyl butyl phthalate (BBP)	<0.1%

Dibutyl phthalate (DBP)	<0.1%
Diisobutyl phthalate (DIBP)	<0.1%

Halogen-Free

IEC 61249-2-21 Halogen-Free standard:

Substance	Bromine	Chlorine	Bromine+ Chlorine
ppm	≤ 900	≤ 900	≤ 1500

PFOS/PFOA Free

The test result of PFOA/PFOS is N.D.

Directive of Packaging and Packaging Waste · 94/62/EC(PPW)

Pb+Cd+Hg+Cr(VI) <100ppm

The following SVHCs are below 1000ppm:

No.	Substance name	EC number	CAS number
1	Bis (2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7
2	Diarsenic pentaoxide	215-116-9	1303-28-2
3	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	247-148-4 221-695-9	25637-99-4
			3194-55-6
			134237-50-6
			134237-51-7
4	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7
5	Lead hydrogen arsenate	232-064-2	7784-40-9
6	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
7	Anthracene	204-371-1	120-12-7
8	Diarsenic trioxide	215-481-4	1327-53-3
9	Dibutyl phthalate (DBP)	201-557-4	84-74-2
10	Triethyl arsenate	427-700-2	15606-95-8
11	Bis(tributyltin)oxide (TBTO)	200-268-0	56-35-9
12	4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9
13	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2

14	Sodium dichromate	234-190-3	7789-12-0
			10588-01-9
15	Anthracene oil, anthracene paste	292-603-2	90640-81-6
16	Diisobutyl phthalate	201-553-2	84-69-5
17	Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4
18	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2
19	Pitch, coal tar, high temp.	266-028-2	65996-93-2
20	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	-
21	Aluminosilicate Refractory Ceramic Fibres	-	-
22	Anthracene oil	292-602-7	90640-80-5
23	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
24	Tris(2-chloroethyl) phosphate	204-118-5	115-96-8
25	2,4-Dinitrotoluene	204-450-0	121-14-2
26	Anthracene oil, anthracene-low	292-604-8	90640-82-7
27	Lead chromate	231-846-0	7758-97-6
28	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8
29	Acrylamide	201-173-7	79-06-1
30	Boric acid	233-139-2	10043-35-3
		234-343-4	11113-50-1
31	Potassium chromate	232-140-5	7789-00-6
32	Sodium chromate	231-889-5	11/3/7775
33	Trichloroethylene	201-167-4	79-01-6
34	Ammonium dichromate	232-143-1	9/5/7789
35	Potassium dichromate	231-906-6	7778-50-9
36	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
37	Disodium tetraborate, anhydrous	215-540-4	1303-96-4
			1330-43-4
			12179-04-3
38	2-Ethoxyethanol	203-804-1	110-80-5
39	Cobalt (II) sulphate	233-334-2	10124-43-3
40	Cobalt (II) dinitrate	233-402-1	10141-05-6
41	Chromium trioxide	215-607-8	1333-82-0
42	2-Methoxyethanol	203-713-7	109-86-4
43	Cobalt (II) diacetate	200-755-8	71-48-7
44	Cobalt (II) carbonate	208-169-4	513-79-1
45	Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	231-801-5	7738-94-5
		236-881-5	13530-68-2
46	1,2-Benzenedicarboxylic acid, di-C68branched alkyl esters, C7-rich	276-158-1	71888-89-6
47	2-Ethoxyethyl acetate	203-839-2	111-15-9
48	Strontium chromate	232-142-6	6/2/7789

49	Hydrazine	206-114-9	302-01-2 7803-57-8
50	1-Methyl-2-pyrrolidone	212-828-1	872-50-4
51	1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters	271-084-6	68515-42-4
52	1,2,3-Trichloropropane	202-486-1	96-18-4
53	Cobalt dichloride	231-589-4	7646-79-9
54	Dichromium tris(chromate)	246-356-2	24613-89-6
55	Phenolphthalein	201-004-7	77-09-8
56	2,2'-Dichloro-4,4'-methylenedianiline	202-918-9	101-14-4
57	Lead styphnate	239-290-0	15245-44-0
58	Lead diazide, Lead azide	236-542-1	13424-46-9
59	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
60	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4
61	4-(1,1,3,3-Tetramethylbutyl) phenol; 4tert- octyl phenol	205-426-2	140-66-9
62	Pentazinc chromate octahydroxide	256-418-0	49663-84-5
63	1,2-Dichloroethane	203-458-1	107-06-2
64	Trilead diarsenate	222-979-5	3687-31-8
65	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
66	Arsenic acid	231-901-9	7778-39-4
67	N, N-dimethylacetamide	204-826-4	127-19-5
68	Lead dipicrate	229-335-2	6477-64-1
69	Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9
70	Bis(2-methoxyethyl) ether	203-924-4	111-96-6
71	Calcium arsenate	231-904-5	7778-44-1
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	203-977-3	112-49-2
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
74	Diboron trioxide	215-125-8	1303-86-2
75	Formamide	200-842-0	75-12-7
76	Lead (II) bis(methanesulfonate)	401-750-5	17570-76-2
77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9
78	1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (βTGIC)	423-400-0	59653-74-6
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
80	N, N, N', N'-tetramethyl-4,4'methylenedianiline (Michler's base)	202-959-2	101-61-1
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9
82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene] cyclo hexa- 2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5

83	a, a-Bis[4-(dimethylamino) phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0
84	4,4'-bis(dimethylamino)-4''- (methylamino)trityl alcohol	209-218-2	561-41-1
85	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
86	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
87	Henicosfluoroundecanoic acid	218-165-4	2058-94-8
88	Hexahydromethylphthalic anhydride [1] Hexahydro-4-methylphthalic anhydride [2] Hexahydro-1-methylphthalic anhydride [3] Hexahydro-3-methylphthalic anhydride [4]	247-094-1	25550-51-0
		243-072-0	19438-60-9
		256-356-4	48122-14-1
		260-566-1	57110-29-9
89	Cyclohexane-1,2-dicarboxylic anhydride (HHPA) [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3]	201-604-9	85-42-7
		236-086-3	13149-00-3
		238-009-9	14166-21-3
90	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
91	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
92	Lead dinitrate	233-245-9	10099-74-8
93	Silicic acid, lead salt	234-363-3	11120-22-2
94	4-Aminoazobenzene	200-453-6	60-09-3
95	Lead titanium zirconium oxide	235-727-4	12626-81-2
96	Lead monoxide (lead oxide)	215-267-0	1317-36-8
97	o-Toluidine	202-429-0	95-53-4
98	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3oxazolidine	421-150-7	143860-04-2
99	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead- doped	272-271-5	68784-75-8
100	Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6
101	Furan	203-727-3	110-00-9
102	N, N-dimethylformamide	200-679-5	68-12-2
103	4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-
104	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well- defined substances which include any of the individual isomers or a combination thereof]	-	-
105	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
106	Diethyl sulphate	200-589-6	64-67-5
107	Dimethyl sulphate	201-058-1	77-78-1
108	Lead oxide sulfate	234-853-7	12036-76-9
109	Lead titanium trioxide	235-038-9	12060-00-3
110	Acetic acid, lead salt, basic	257-175-3	51404-69-4
111	[Phthalato (2-)] dioxotrilead	273-688-5	69011-06-9

112	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
113	N-methylacetamide	201-182-6	79-16-3
114	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
115	1,2-Diethoxyethane	211-076-1	629-14-1
116	Tetralead trioxide sulphate	235-380-9	12202-17-4
117	N-pentyl-isopentylphthalate	-	776297-69-9
118	Dioxobis(stearato)trilead	235-702-8	12578-12-0
119	Tetraethyllead	201-075-4	78-00-2
120	Pentalead tetraoxide sulphate	235-067-7	12065-90-6
121	Pentacosfluorotridecanoic acid	276-745-2	72629-94-8
122	Tricosfluorododecanoic acid	206-203-2	307-55-1
123	Heptacosfluorotetradecanoic acid	206-803-4	376-06-7
124	1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
125	Methoxyacetic acid	210-894-6	625-45-6
126	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
127	Methyloxirane (Propylene oxide)	200-879-2	75-56-9
128	Trilead dioxide phosphonate	235-252-2	12141-20-7
129	o-aminoazotoluene	202-591-2	97-56-3
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
131	4,4'-oxydianiline and its salts	202-977-0	101-80-4
132	Orange lead (lead tetroxide)	215-235-6	1314-41-6
133	Biphenyl-4-ylamine	202-177-1	92-67-1
134	Diisopentylphthalate	210-088-4	605-50-5
135	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
136	Diazene-1,2-dicarboxamide (C, C'azodi(formamide))	204-650-8	123-77-3
137	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
138	Lead cyanamidate	244-073-9	20837-86-9
139	Cadmium	231-152-8	7440-43-9
140	Cadmium oxide	215-146-2	1306-19-0
141	Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1
142	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1
143	Dipentyl phthalate (DPP)	205-017-9	131-18-0
144	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-
145	Cadmium sulphide	215-147-8	1306-23-6
146	Dihexyl phthalate	201-559-5	84-75-3
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0

148	Disodium 4-amino-3-[[4'-[(2,4diaminophenyl) azo] [1,1'-biphenyl]- 4yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7disulphonate (C.I.Direct Black 38)	217-710-3	1937-37-7
149	Imidazolidine-2-thione; (2-imidazoline-2thiol)	202-506-9	96-45-7
150	Lead di (acetate)	206-104-4	301-04-2
151	Trixylyl phosphate	246-677-8	25155-23-1
152	Cadmium chloride	233-296-7	10108-64-2
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4
154	Sodium peroxometaborate	231-556-4	4/4/7632
155	Sodium perborate; perboric acid, sodium salt	239-172-9	-
		234-390-0	
156	Cadmium fluoride	232-222-0	7790-79-6
157	Cadmium sulphate	233-331-6	10124-36-4
			3111953-6
158	2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	223-346-6	3846-71-7
159	2-(2H-benzotriazol-2-yl)-4,6ditertpentylphenol (UV-328)	247-384-8	25973-55-1
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1
161	reaction mass of 2-ethylhexyl 10-ethyl- 4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl) oxy]-2oxoethyl] thio]-4-octyl-7-oxo-8-oxa-3,5- dithia- 4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-
162	1,2-benzenedicarboxylic acid, di-C6-10alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0	68515-51-5
		272-013-1	68648-93-1
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3en-1-yl)-5-methyl-1,3-dioxane [1] 5-sec- butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)- 5-methyl-1,3- dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	-
164	Nitrobenzene	202-716-0	98-95-3
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol2yl) phenol (UV-327)	223-383-8	3864-99-1
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)6(sec- butyl) phenol (UV-350)	253-037-1	36437-37-3
167	1,3-propanesultone	214-317-9	1120-71-4
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1
			21049-39-8
			4149-60-4
169	Benzo[def]chrysene	200-028-5	50-32-8
170	4,4'-isopropylidenediphenol	201-245-8	80-05-7

171	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt	206-400-3 221-470-5	335-76-2
			3108-42-7
			3830-45-3
173	p-(1,1-dimethylpropyl) phenol	201-280-9	80-46-6
174	Perfluorohexane-1-sulphonic acid and its salts	-	-
175	Chrysene	205-923-4	218-01-9
			1719-03-5
176	Benz[a]anthracene	200-280-6	56-55-3
			1718-53-2
177	Cadmium nitrate	233-710-6	10022-68-1
			10325-94-7
178	Cadmium hydroxide	244-168-5	21041-95-2
179	Cadmium carbonate	208-168-9	513-78-0
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.16,9.02, 13.05,10] octadeca-7,15-diene (“Dechlorane Plus” TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-
181	Reaction products of 1,3,4thiadiazolidine-2,5-dithione, formaldehyde and 4heptylphenol, branched and linear (RP-HP) with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPbl)	-	-
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride; TMA)	209-008-0	552-30-7
183	Benzo[ghi]perylene	205-883-8	191-24-2
184	Decamethylcyclotrasiloxane (D5)	208-764-9	541-02-6
185	Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7
186	Disodium octaborate	234-541-0	12008-41-2
187	Dodecamethylcyclotrasiloxane (D6)	208-762-8	540-97-6
188	Ethylenediamine (EDA)	203-468-6	107-15-3
189	Lead	231-100-4	7439-92-1
190	Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2
191	Terphenyl, hydrogenated	262-967-7	61788-32-7
192	2,2-bis(4'-hydroxyphenyl)-4methylpentane	6807-17-6	401-720-1
193	Benzo[k]fluoranthene	207-08-9	205-916-6
194	Fluoranthene	206-44-0	205-912-4
		93951-69-0	
195	Phenanthrene	85-01-8	201-581-5
196	Pyrene	129-00-0	204-927-3
		1718-52-1	

197	1,7,7-trimethyl-3- (phenylmethylene) bicyclo- [2.2.1] heptan-2-one	15087-24-8	239-139-9
198	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof	-	-
199	2-methoxyethyl acetate	203-772-9	110-49-6
200	4-tert-butylphenol (PTBP)	202-679-0	98-54-4
201	Tris (4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-
202	2-benzyl-2-dimethylamino-4'- morpholinobutyrophenone	404-360-3	119313-12-1
203	2-methyl-1-(4-methylthiophenyl)-2- morpholinopropan-1-one	400-600-6	71868-10-5
204	Diisohexyl phthalate	276-090-2	71850-09-4
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-
206	1-vinylimidazole	214-012-0	1072-63-5
207	2-methylimidazole	211-765-7	693-98-1
208	Butyl 4-hydroxybenzoate	202-318-7	94-26-8
209	Dibutylbis (pentane-2,4-dionato-O, O') tin	245-152-0	22673-19-4-
210	Dioctyltin dilaurate, stannane, dioctyl-, bis (coco acyloxy) derivs., and any other stannane, dioctyl-, bis (fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-
211	Bis(2-(2-methoxyethoxy) ethyl) ether	205-594-7	143-24-8
212	1,4-dioxane	204-661-8	123-91-1
213	2,2-bis(bromomethyl)propane 1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	221-967-7 253-057-0 202-480-9	3296-90-0
			36483-57-5
			1522-92-5
			96-13-9
214	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	201-289-8	80-54-6
			75166-30-2
			75166-31-3
215	4,4'-(1-methylpropylidene) bisphenol; (bisphenol B)	201-025-1	77-40-7
216	Glutaral	203-856-5	111-30-8
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	215-604-1 237-560-2	85535-85-9
			198840-65-2
			1372804-76-6
218	Orthoboric acid, sodium salt	215-604-1 237-560-2	13840-56-7
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP): Phenol, 4-dodecyl, branched; 4-isododecylphenol; Phenol, 4-isododecyl-; Phenol, dodecyl-, branched ; Phenol, (tetrapropenyl) derivatives ; Phenol, tetrapropylene-	310-154-3	210555-94-5
			27459-10-5
			27147-75-7
			121158-58-5
			74499-35-7
			57427-55-1

220	(±)-1,7,7-trimethyl-3- [(4- methylphenyl) methylene] bicyclo [2.2.1] heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	253-242-6	1782069-81-1
			95342-41-9
			852541-25-4
			36861-47-9
			741687-98-9
			852541-30-1
			852541-21-0
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	204-327-1	119-47-1
222	S-(tricyclo (5.2.1.0'2,6) deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2- ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8
223	tris(2-methoxyethoxy) vinylsilane	213-934-0	1067-53-4
224	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5

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