

## **RoHS & Halogen Free & REACH**

### **Compliance Declaration Letter**

#### **RoHS Compliance Declaration**

Union Semiconductor, Inc. hereby certify that our products Analog & Mixed Signal Integrated Circuits are compliant with all requirement and exemption set by the European RoHS 2.0 Directive 2011/65/EU

#### **Halogen Free Compliance Declaration**

We hereby declare that Analog & Mixed Signal Integrated Circuits delivered by us are complying with Halogen free requirements. (Br <900ppm, Cl <900ppm, Br+Cl <1500ppm)

#### **REACH Compliance Declaration**

We hereby also certify Analog & Mixed Signal Integrated Circuits manufactured by Union Semiconductor, Inc. are fully comply with the related requirements of European Union Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH):

1. Under the structure of the REACH regulation, Union Semiconductor, Inc. is a manufacturer of “ARTICLES” to our EU customers (according to ECHA's guidance for articles, the electronic components shall be considered as articles). We do not manufacture “substances” or “preparations” and our articles do not involve the “intentional release of substances”. Accordingly, we foresee no registration or pre-registration or Authorization requirement for the products we supplied.
2. With regard to the requirement of Article 33 of REACH: Duty to communicate information on substances in articles. We declare that none of the SVHCs (the Candidate List of Substances of Very High Concern for authorization currently released by ECHA till the date of Dec. 2014), is present in Union Semiconductor products (and also package) in quantities totaling in a concentration equal or above

0.1%.

3. With regard to the requirement of Article 67 of REACH: A substance on its own, in a preparation or in an article, for which Annex XVII, contains a restriction shall not be manufactured, placed on the market or used unless it complies with the conditions of that restriction. We declare that none of the substances in the Condition of restriction is present in Union Semiconductor product (and also package)

As REACH regulation is updated frequently, for the major changes afterwards, such as the addition of SVHC substances into Annex XIV, the addition of restricted substances in Annex XVII, Union Semiconductor will evaluate the further revise in time and update this declaration to reflect these change.

We further declare that all the statements in this letter are true and accurate. We are also aware that we will be liable for any direct damage incurred by your company arising from our breach of any declarations in this letter. The amount of damage shall be determined by an irrevocable judgment of competent judicial or relevant authorities.

*Wendy Cai*

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### Annex 1: Candidate list of SVHC published by ECHA

No.	Substance name	中文名	CAS number	EC number
<b>SVHC 1 (2008/10/28)</b>				
1	Anthracene	蒽	120-12-7	204-371-1
2	4,4'-Diaminodiphenylmethane (MDA)	4,4'-二氨基二苯甲烷	101-77-9	202-974-4
3	Cobalt dichloride	氯化鈷	7646-79-9	231-589-4
4	Diarsenic pentaoxide	五氧化二砷	1303-28-2	215-116-9
5	Diarsenic trioxide	三氧化二砷	1327-53-3	215-481-4
6	Sodium dichromate	重鉻酸鈉・二倍結晶水	7789-12-0 10588-01-9	234-190-3
7	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	5-叔丁基-2,4,6-三硝基間二甲苯	81-15-2	201-329-4
8	Dibutyl phthalate	鄰苯二甲酸二丁酯 DBP	84-74-2	201-557-4
9	Bis (2-ethyl(hexyl)phthalate) (DEHP)	鄰苯二甲酸二(2-乙基己基)酯	117-81-7	204-211-0
10	Benzyl butyl phthalate (BBP)	鄰苯二甲酸丁酯苯甲酯	85-68-7	201-622-7
11	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	六溴環十二烷	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	247-148-4 and 221-695-9
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	短鏈氯化石蠟	85535-84-8	287-476-5
13	Bis(tributyltin)oxide (TBTO)	氧化三丁錫	56-35-9	200-268-0
14	Lead hydrogen arsenate	砷酸氫鉛	7784-40-9	232-064-2
15	Triethyl arsenate	三乙基砷酸酯	15606-95-8	427-700-2
<b>SVHC 2 (2010/01/13)</b>				
16	Anthracene oil	蒽油	90640-80-5	292-602-7
17	Anthracene oil, anthracene paste, distn. Lights	蒽油,蒽糊,輕油	91995-17-4	295-278-5
18	Anthracene oil, anthracene paste, anthracene fraction	蒽油,蒽糊,蒽鹼分離液	91995-15-2	295-275-9
19	Anthracene oil, anthracene -low	蒽油, 含蒽量少	90640-82-7	292-604-8
20	Anthracene oil, anthracene paste	蒽油, 蒽糊	90640-81-6	292-603-2
21	Pitch, coal tar, high temperature	煤瀝青,高溫	65996-93-2	266-028-2
22	2,4-Dinitrotoluene	2,4-二硝基甲苯	121-14-2	204-450-0
23	Diisobutyl phthalate(DIBP)	鄰苯二甲酸二異丁酯	84-69-5	201-553-2
24	Lead chromate	鉻酸鉛	7758-97-6	231-846-0
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	紅色鉬鉻酸鉛硫酸鹽 (C.I.紅色 104)	12656-85-8	235-759-9
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	黃色硫化鉻酸鉛 (C.I.黃色 34)	1344-37-2	215-693-7
27	Tris(2-chloroethyl)phosphate	三 2-(氯乙基)磷酸酯	115-96-8	204-118-5
28	Acrylamide	丙烯醯胺	79-06-1	201-173-7
<b>SVHC 3 (2010/06/18)</b>				

No.	Substance name	中文名	CAS number	EC number
29	Ammonium dichromate	重鉻酸銨	2151163-0 (7789-09-5)	232-143-1
30	Boric acid	硼酸	10043-35-3 11113-50-1	233-139-2 234-343-4
31	Disodium tetraborate, anhydrous	無水四硼酸二鈉	1303-96-4 1330-43-4 12179-04-3	215-540-4
32	Potassium chromate	鉻酸鉀	7789-00-6	232-140-5
33	Potassium dichromate	重鉻酸鉀	7778-50-9	231-906-6
34	Sodium chromate	鉻酸鈉	7775-11-3	231-889-5
35	Tetraboron disodium heptaoxide, hydrate	水合七氧四硼酸二鈉	12267-73-1	235-541-3
36	Trichloroethylene	三氯乙烯	79-01-6	201-167-4
<b>SVHC 4 (2010/12/15)</b>				
37	2-Ethoxyethanol	乙二醇乙醚	110-80-5	203-804-1
38	2-Methoxyethanol	乙二醇甲醚	109-86-4	203-713-7
39	Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	從三氧化鉻生成的酸類與其它寡體：		
40	Chromic acid	鉻酸	7738-94-5	231-801-5;
41	Dichromic acid	重鉻酸	13530-68-2	236-881-5
	Oligomers of chromic acid and dichromic acid	鉻酸與重鉻酸的其它寡體		
	Chromium trioxide	三氧化鉻	1333-82-0	215-607-8
	Cobalt (II) carbonate	碳酸鈷（二價）	513-79-1	208-169-4
42	Cobalt(II) dinitrate	硝酸鈷（二價）	10141-05-6	233-402-1
43	Cobalt(II) sulphate	硫酸鈷（二價）	10124-43-3	233-334-2
44	Cobalt(II) diacetate	醋酸鈷（二價）	71-48-7	200-755-8
<b>SVHC 5 (2011/06/20)</b>				
45	1,2,3-Trichloropropane	1,2,3-三氯丙烷	96-18-4	202-486-1
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	鄰苯二甲酸二-C6-8-支鏈庚酯	71888-89-6	276-158-1
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯	68515-42-4	271-084-6
48	1-Methyl-2-pyrrolidone	1-甲基吡咯烷酮	872-50-4	212-828-1
49	2-Ethoxyethyl acetate	乙二醇乙醚醋酸酯	111-15-9	203-839-2
50	Hydrazine	聯胺或水合聯胺	7803-57-8 302-01-2	206-114-9
51	Strontium chromate	鉻酸銣	7789-06-2	232-142-6
<b>SVHC 6 (2010/12/15)</b>				

No.	Substance name	中文名	CAS number	EC number
52	Dichromium tris(chromate)	鉻酸鉻	24613-89-6	246-356-2
53	Potassium hydroxyoctaoxodizincatedi-chromate	氫氧化鉻酸鋅鉀	11103-86-9	234-329-8
54	Pentazinc chromate octahydroxide	鉻酸五鋅八氫氧化物	49663-84-5	256-418-0
55	Aluminosilicate Refractory Ceramic Fibres (RCF)	矽酸鋁耐火陶瓷纖維	-	-
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	氧化鋯矽酸鋁耐火陶瓷纖維	-	-
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	甲醛與苯胺寡聚反應的產物(工業級MDA)	25214-70-4	500-036-1
58	Bis(2-methoxyethyl) phthalate	鄰苯二甲酸二(2-甲氧基乙)酯	117-82-8	204-212-6
59	2-Methoxyaniline; o-Anisidine	鄰-甲氧苯胺	90-04-0	201-963-1
60	4-(1,1,3,3-tetramethylbutyl)phenol	4-三級辛基苯酚	140-66-9	205-426-2
61	1,2-dichloroethane	1,2-二氯乙烷	107-06-2	203-458-1
62	Bis(2-methoxyethyl) ether	二乙二醇二甲醚	111-96-6	203-924-4
63	Arsenic acid	砷酸	7778-39-4	231-901-9
64	Calcium arsenate	砷酸鈣	7778-44-1	231-904-5
65	Trilead diarsenate	砷酸鉛	3687-31-8	222-979-5
66	N,N-dimethylacetamide (DMAC)	N,N-二甲基乙醯胺	127-19-5	204-826-4
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	4,4'-亞甲雙(2-氯苯胺) 或稱 2,2'-二氯-4,4'-亞甲基二苯胺	101-14-4	202-918-9
68	Phenolphthalein	酚酞	77-09-8	201-004-7
69	Lead azide	疊氮化鉛	13424-46-9	236-542-1
70	Lead diazide			
71	Lead styphnate	史蒂芬酸鉛 或稱 2,4,6-三硝基間苯二酚鉛 二苦味酸鉛	15245-44-0 6477-64-1	239-290-0 229-335-2
	Lead dipicrate			
SVHC 7 (2012/06/18)				
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	三甘醇二甲醚	112-49-2	203-977-3
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	乙二醇二甲醚	110-71-4	203-794-9
74	Diboron trioxide	三氧化二硼	1303-86-2	215-125-8
75	Formamide	甲醯胺	75-12-7	200-842-0
76	Lead(II) bis(methanesulfonate)	甲基磺酸鉛	17570-76-2	401-750-5
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	異氰尿酸三縮水甘油酯	2451-62-9	219-514-3
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	異氰尿酸 β-三縮水甘油酯	59653-74-6	423-400-0
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	[4,4'-二(N,N-二甲氨基)二苯甲	90-94-8	202-027-5

No.	Substance name	中文名	CAS number	EC number
		酮 (米氏酮) ]		
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	4,4'-(对二甲氨基)二苯基甲烷 (米氏碱)	101-61-1	202-959-2
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	C.I.碱性紫 3	548-62-9	208-953-6
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	C.I.碱性藍 26	2580-56-5	219-943-6
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	C.I.溶剂藍 4	6786-83-0	229-851-8
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	[4,4'-二[(二甲氨基)苯基]-4''-甲基苯基甲醇]	561-41-1	209-218-2
SVHC 8 (2012/12/19)				
85	Bis(pentabromophenyl) ether (DecaBDE)	十溴二苯醚	1163-19-5	214-604-9
86	Pentacosfluorotridecanoic acid	全氟十三酸	72629-94-8	276-745-2
87	Tricosfluorododecanoic acid	全氟十二酸	307-55-1	206-203-2
88	Henicosfluoroundecanoic acid	全氟十一酸	2058-94-8	218-165-4
89	Heptacosfluorotetradecanoic acid	全氟十四酸	376-06-7	206-803-4
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	1,1'-偶氮雙甲醯胺	123-77-3	204-650-8
91	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	六氫鄰苯二甲酐	85-42-7 13149-00-3 14166-21-3	201-604-9 201-604-9 236-086-3 238-009-9
92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	甲基六氫鄰苯二甲酐, 4-甲基六氫鄰苯二甲酐, 1-甲基六氫鄰苯二甲酐, 3-甲基六氫鄰苯二甲酐	25550-51-0 19438-60-9 48122-14-1 57110-29-9	247-094-1 243-072-0 256-356-4 260-566-1
93	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]	支鏈和直鏈-4-壬基酚, 有烷基直鏈及/或支鏈以 9 個碳共價於酚的對位, 涵蓋所有由單一或多種異構物組合的明確定義物質及 UVCB 物質	-	-
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - [covering well-defined substances and UVCB substances, polymers and homologues]	乙氧化 4-(1,1,3,3-四甲基丁基)苯酚.涵蓋明確定義物質及 UVCB 物質、聚合物及同系物	-	-
95	Methoxy acetic acid	甲氧基乙酸	625-45-6	210-894-6
96	N,N-dimethylformamide; dimethyl formamide	二甲基甲醯胺	68-12-2	200-679-5
97	Dibutyltin dichloride (DBT)	二氯化二丁錫	683-18-1	211-670-0
98	Lead oxide (lead monoxide)	一氧化鉛	1317-36-8	215-267-0
99	Lead tetroxide (orange lead)	四氧化三鉛(鉛丹)	1314-41-6	215-235-6
100	Lead bis(tetrafluoroborate)	二(四氟硼酸)鉛	13814-96-5	237-486-0

No.	Substance name	中文名	CAS number	EC number
101	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	鹼式碳酸鉛	1319-46-6	215-290-6
102	Lead titanium trioxide	鈦酸鉛(II)	12060-00-3	235-038-9
103	Lead Titanium Zirconium Oxide	銻鈦鉛氧化物	12626-81-2	235-727-4
104	Silicic acid, lead salt	矽酸鉛	11120-22-2	234-363-3
105	Silicic acid, barium salt, lead-doped	摻雜鉛的矽酸鋇	68784-75-8	272-271-5
106	1-bromopropane; n-propyl bromide	1-溴丙烷	106-94-5	203-445-0
107	Propylene oxide; 1,2-epoxypropane; methyloxirane	環氧丙烷	75-56-9	200-879-2
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	支鏈和直鏈 1,2-苯二甲酸二戊酯	84777-06-0	284-032-2
109	Diisopentylphthalate (DIPP)	鄰苯二甲酸二異戊酯	605-50-5	210-088-4
110	N-pentyl-isopentylphthalate	鄰苯二甲酸正戊基異戊基酯	776297-69-9	-
111	1,2-Diethoxyethane	乙二醇二乙醚	629-14-1	211-076-1
112	Acetic acid, lead salt, basic	鹼式乙酸鉛	51404-69-4	257-175-3
113	Lead oxide sulfate (basic lead sulfate)	鹼式硫酸鉛	12036-76-9	234-853-7
114	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	二鹼式鄰苯二甲酸鉛	69011-06-9	273-688-5
115	Dioxobis(stearato)trilead	雙(十八酸基)二氧三鉛	12578-12-0	235-702-8
116	Fatty acids, C16-18, lead salts	C16-18-脂肪酸鉛鹽	91031-62-8	292-966-7
117	Lead cyanamate	氰胺化鉛	20837-86-9	244-073-9
118	Lead dinitrate	硝酸鉛	10099-74-8	233-245-9
119	Pentalead tetraoxide sulphate	硫酸四氧化五鉛	12065-90-6	235-067-7
120	Pyrochlore, antimony lead yellow	燒綠石銻鉛黃	8012-00-8	232-382-1
121	Sulfurous acid, lead salt, dibasic	亞硫酸鉛	62229-08-7	263-467-1
122	Tetraethyllead	四乙基鉛	78-00-2	201-075-4
123	Tetralead trioxide sulphate	三鹼式硫酸鉛	12202-17-4	235-380-9
124	Trilead dioxide phosphonate	二鹼式亞磷酸鉛	12141-20-7	235-252-2
125	Furan	呋喃	110-00-9	203-727-3
126	Diethyl sulphate	硫酸二乙酯	64-67-5	200-589-6
127	Dimethyl sulphate	硫酸二甲酯	77-78-1	201-058-1
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	3-乙基-2-甲基-2-(3-甲基丁基)噁唑烷	143860-04-2	421-150-7
129	Dinoseb	達諾殺	88-85-7	201-861-7
130	4,4'-methylenedi-o-toluidine	4,4'-亞甲基二-鄰-甲苯胺	838-88-0	212-658-8

No.	Substance name	中文名	CAS number	EC number
131	4,4'-oxydianiline and its salts	4,4'-氧二苯胺及其鹽類	101-80-4	202-977-0
132	4-Aminoazobenzene; 4-Phenylazoaniline	4-胺基偶氮苯	60-09-3	200-453-6
133	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	4-甲基-間-苯二胺 (2,4-二胺基甲苯)	95-80-7	202-453-1
134	6-methoxy-m-toluidine (p-cresidine)	6-甲氧基-間-甲苯胺	120-71-8	204-419-1
135	Biphenyl-4-ylamine	4-胺基聯苯	92-67-1	202-177-1
136	o-aminoazotoluene	鄰-胺基偶氮甲苯	97-56-3	202-591-2
137	o-Toluidine; 2-Aminotoluene	鄰-甲苯胺	95-53-4	202-429-0
138	N-methylacetamide	N-甲基乙醯胺	79-16-3	201-182-6
<b>SVHC 9 (2013/06/20)</b>				
139	Cadmium	鎘	7440-43-9	231-152-8
140	Cadmium oxide	氧化鎘	1306-19-0	215-146-2
141	Ammonium pentadecafluorooctanoate (APFO)	全氟辛酸銨	3825-26-1	223-320-4
142	Pentadecafluorooctanoic acid (PFOA)	全氟辛酸	335-67-1	206-397-9
143	Dipentyl phthalate (DPP)	鄰苯二甲酸二戊酯	131-18-0	205-017-9
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]	分支或線性的乙氧化壬基酚，包括含有 9 個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支 9 個碳烷基鏈的 UVCB 物質	-	-
<b>SVHC 10 (2013/12/16)</b>				
145	Cadmium sulphide	氧化鎘	1306-23-6	215-147-8
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	直接紅 28	573-58-0	209-358-4
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	直接黑 38	1937-37-7	217-710-3
148	Dihexyl phthalate	鄰苯二甲酸二己酯	84-75-3	201-559-5
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	亞乙基硫脲	96-45-7	202-506-9
150	Lead di(acetate)	醋酸鉛	301-04-2	206-104-4
151	Trixylyl phosphate	磷酸三(二甲苯)酯	25155-23-1	246-677-8

SVHC 11(2014/06/16)				
No.	Substance name	中文名	CAS number	EC number
152	Cadmium chloride	氯化镉	10108-64-2	233-296-7
153	Sodium peroxometaborate	过硼酸钠	7632-04-4	231-556-4
154	Sodium perborate; perboric acid, sodium salt	水合过硼酸钠	--	239-172-9; 234-390-0
155	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	邻苯二甲酸二(支链与直链)乙基酯	68515-50-4	271-093-5
SVHC 6(2014/12/17)				
156	Cadmium sulphate	硫化镉	10124-36-4; 31119-53-6	233-331-6
157	Cadmium fluoride	氟化镉	7790-79-6	232-222-0
158	2-benzotriazol-2-yl-4, 6-di-tert-butylphenol (UV-320)	紫外线吸收剂 UV320	3846-71-7	223-346-6
159	2-(2H-benzotriazol-2-yl)-4, 6-ditertpentylphenol (UV-328)	紫外线吸收剂 UV328	25973-55-1	247-384-8
160	2-ethylhexyl 10-ethyl-4, 4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate; DOTE	硫代甘醇酸异辛酯二正基锡	15571-58-1	239-622-4
161	Reaction mass of 2-ethylhexyl 10-ethyl-4, 4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	DOTE 和 MOTE 反应产物	--	--