



Test Report No. F690101/LF-CTSAYAA14-29679

Issued Date : 2014. 06. 20

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HEESUNG CATALYSYS CORP.

1251-6,Jeongwang-dong
Siheung-si,Gyeonggi-do
Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No. : AYAA14-29679
Product Name : Potassium Gold Cyanide (PGC)
Item No./Part No. : N/A
Received Date : 2014. 06. 13
Test Period : 2014. 06. 16 to 2014. 06. 20
Test Results : For further details, please refer to following page(s)

SGS Korea Co., Ltd.

Jeff Jang / Chemical Lab Mgr

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Sample No. : AYAA14-29679.001
Sample Description : Potassium Gold Cyanide (PGC)
Item No./Part No. : N/A
Materials : POWDER

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference to IEC 62321:2008, ICP	0.5	N.D.
Lead (Pb)	mg/kg	With reference to IEC 62321:2008, ICP	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321:2008, ICP	2	N.D.
Hexavalent Chromium (Cr VI)	mg/kg	With reference to IEC 62321:2008, UV-VIS	1	N.D.
Antimony (Sb)	mg/kg	With reference to EPA 3052(1996), US EPA 6010B(1996), ICP	10	N.D.
Beryllium (Be)	mg/kg	With reference to EPA 3052(1996), US EPA 6010B(1996), ICP	0.5	N.D.
Manganese (Mn)	mg/kg	With reference to EPA 3052(1996), US EPA 6010B(1996), ICP	0.5	N.D.
Nickel (Ni)	mg/kg	With reference to EPA 3052(1996), US EPA 6010B(1996), ICP	1	N.D.

Flame Retardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Monobromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromobiphenyl	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Dibromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tribromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Pentabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Hexabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Octabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Nonabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference to IEC 62321:2008, GC-MS	5	N.D.

Phthalates

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Sample No. : AYAA14-29679.001
Sample Description : Potassium Gold Cyanide (PGC)
Item No./Part No. : N/A
Materials : POWDER

Phthalates

Test Items	Unit	Test Method	MDL	Results
Di-methyl phthalate (DMP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-ethyl phthalate(DEP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-propyl phthalate(DPrP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-isobutyl phthalate (DIBP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Dibutyl phthalate (DBP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-pentyl phthalate(DPP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-n-hexyl phthalate (DNHP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Benzyl butyl phthalate (BBP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-(2-ethylhexyl) adipate (DEHA)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-cyclohexyl phthalate (DCHP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-n-octyl phthalate (DNOP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-isononyl phthalate (DINP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-isodecyl phthalate (DIDP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-n-nonyl phthalate (DNP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Bis(2-methoxyethyl) phthalate (BMP, DMEP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
[di(C7-C11 alkyl)phthalate] linear+branched (DIHP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
Di-isooctyl phthalate (DIOP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.
[di(C6-C8 alkyl)phthalate] branched (DHNUP)	mg/kg	With reference to EPA 8061A , GC/MS	50	N.D.

Chlorinated Organic Substances

Test Items	Unit	Test Method	MDL	Results
Polychlorinated Naphthalene (PCN)	mg/kg	EPA 8081 A , GC/MS	5	N.D.
Polychlorinated Biphenyls (PCBs)	mg/kg	USEPA 8082 , GC/MS	3	N.D.
Polychlorinated terphenyls (PCTs)	mg/kg	USEPA 8082 , GC/MS	3	N.D.

Polymer Identification

Test Items	Unit	Test Method	MDL	Results
PVC	**	FT-IR	-	Negative

Halogen Content

Test Items	Unit	Test Method	MDL	Results
Bromine(Br)	mg/kg	BS EN 14582:2007 , IC	30	N.D.
Chlorine(Cl)	mg/kg	BS EN 14582:2007 , IC	30	N.D.

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Sample No. : AYAA14-29679.001
Sample Description : Potassium Gold Cyanide (PGC)
Item No./Part No. : N/A
Materials : POWDER

Halogen Content

Test Items	Unit	Test Method	MDL	Results
Fluorine(F)	mg/kg	BS EN 14582:2007 , IC	30	N.D.
Iodine(I)	mg/kg	BS EN 14582:2007 , IC	50	N.D.

Organotin Compounds

Test Items	Unit	Test Method	MDL	Results
Monobutyltin (MBT)	mg/kg	DIN 38407-13 , GC/MS	0.1	N.D.
Dibutyltin (DBT)	mg/kg	DIN 38407-13 , GC/MS	0.1	N.D.
Tributyltin (TBT)	mg/kg	DIN 38407-13 , GC/MS	0.1	N.D.
Bis (tributyltin)oxide (TBTO)	mg/kg	DIN 38407-13 , GC/MS	0.1	N.D.
Triphenyltin (TPhT)	mg/kg	DIN 38407-13 , GC/MS	0.1	N.D.
Monooctyltin(MOT)	mg/kg	DIN 38407-13 , GC/MS	0.1	N.D.
Diocetyl tin(DOT)	mg/kg	DIN 38407-13 , GC/MS	0.1	N.D.

Ozone Depleting Substances

Test Items	Unit	Test Method	MDL	Results
Trichlorofluoromethane (CFC-11)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Dichlorodifluoromethane (CFC-12)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
1,1,2-Trichloro-1,2,2-trifluoroethane (CFC-113)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Dichlorotetrafluoroethane (CFC-114)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chloropentafluoroethane (CFC-115)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chlorotrifluoromethane (CFC-13)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Pentachlorofluoroethane (CFC-111)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Tetrachlorodifluoroethane (CFC-112)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Heptachlorofluoropropane (CFC-211)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hexachlorodifluoropropane (CFC-212)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Pentachlorotrifluoropropane (CFC-213)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Tetrachlorotetrafluoropropane (CFC-214)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Trichlorohexafluoropropane (CFC-216)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Chloroheptafluoropropane (CFC-217)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Bromochlorodifluoromethane (Halon-1211)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Bromotrifluoromethane (Halon-1301)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Dibromotetrafluoroethane (Halon-2402)	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-21	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-22	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-31	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.

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Sample No. : AYAA14-29679.001
Sample Description : Potassium Gold Cyanide (PGC)
Item No./Part No. : N/A
Materials : POWDER

Ozone Depleting Substances

Test Items	Unit	Test Method	MDL	Results
Hydrochlorofluorocarbon-121	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-122	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-123	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-124	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-131	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-132b	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-133a	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-141b	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-221	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-222	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-223	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-224	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-225ca	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-225cb	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-226	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-231	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-232	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-233	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-234	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-235	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-241	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-242	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-243	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-244	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-251	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-252	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-253	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-261	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-262	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.
Hydrochlorofluorocarbon-271	mg/kg	US EPA 8260B , GC/MS	0.1	N.D.

Flame Retardants

Test Items	Unit	Test Method	MDL	Results
Tetrabromobisphenol A	mg/kg	US EPA 3540C, GC/MS	10	N.D.

Azo Dyes

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Sample No. : AYAA14-29679.001
Sample Description : Potassium Gold Cyanide (PGC)
Item No./Part No. : N/A
Materials : POWDER

Azo Dyes

Test Items	Unit	Test Method	MDL	Results
o-Toluidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
2,4-Xylidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
2,6-Xylidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
o-Anisidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
p-Chloroaniline	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
p-Cresidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
2,4,5-Trimethylaniline	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
4-Chloro-o-Toluidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
2,4-Toluenediamine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
2,4-Diaminoanisole	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
2-Naphtylamine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
2-Amino-4-Nitrotoluene	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
4-Aminodiphenyl	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
4,4'-Oxydianiline	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
Benzidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
4,4'-diaminodiphenylmethane	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
o-Aminoazotoluene	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
3,3-Dimethyl-4,4'-diaminodiphenyl methane	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
3,3-Dimethylbenzidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
4,4'-Thioaniline	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
3,3'-Dichlorobenzidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
4,4'-Methylen-bis-(2-chloroaniline)	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
3,3-Dimethoxybenzidine	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.
4-Aminoazobenzene**	mg/kg	With reference to EN 14362-1, GC/MS & HPLC	10	N.D.

Other(s)

Test Items	Unit	Test Method	MDL	Results
DMF (N,N-Dimethylformamide)	mg/kg	In-House method, GC/MS	10	N.D.
Formaldehyde	mg/kg	EPA8315A, HPLC	5	N.D.

Sulfur

Test Items	Unit	Test Method	MDL	Results
Sulfur	mg/kg	BS EN 14582:2007 , IC	30	N.D.

Other(s)

Test Items	Unit	Test Method	MDL	Results

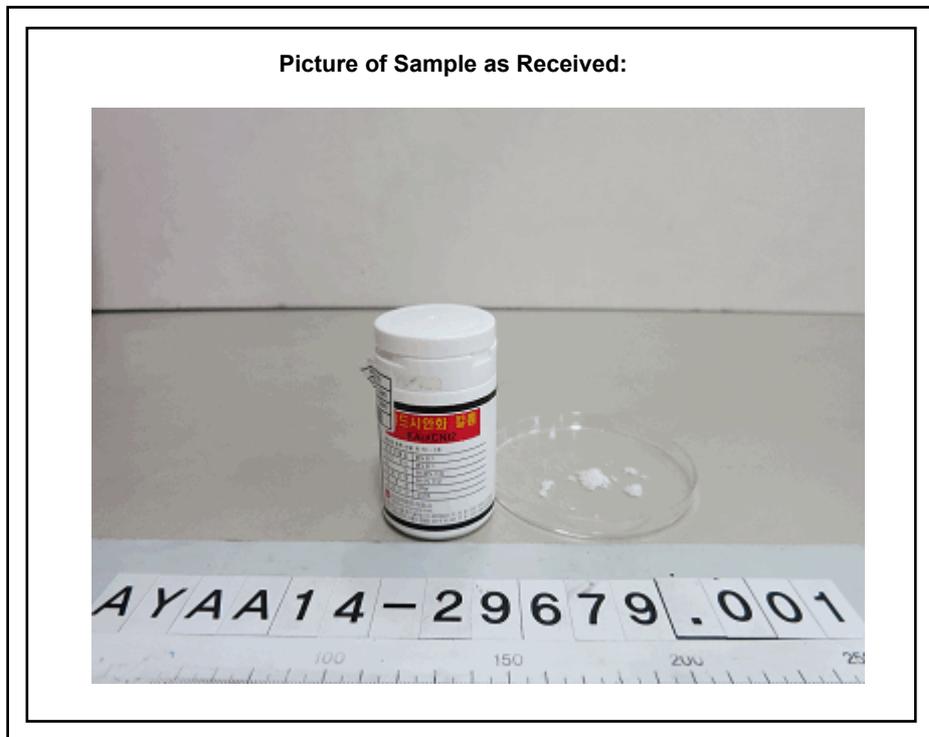
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Sample No. : AYAA14-29679.001
Sample Description : Potassium Gold Cyanide (PGC)
Item No./Part No. : N/A
Materials : POWDER

Other(s)

Test Items	Unit	Test Method	MDL	Results
PFOA (Perfluorooctanoic acid)	mg/kg	US EPA 3540C/3550C, LC/MS	1	N.D.
PFOS (Perfluorooctane Sulfonates-Acid/Metal Salt/Amide)	mg/kg	US EPA 3540C/3550C, LC/MS	1	N.D.

- NOTE:
- (1) N.D. = Not detected.(<MDL)
 - (2) mg/kg = ppm
 - (3) MDL = Method Detection Limit
 - (4) - = No regulation
 - (5) ** = Qualitative analysis (No Unit)
 - (6) Negative = Undetectable / Positive = Detectable



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