



# 國喬石油化學股份有限公司

GRAND PACIFIC PETROCHEMICAL CORPORATION

總公司:台北市敦化北路135號8樓

Head Office: 8F, NO.135, DUNHUA N. RDL, SONGSHAN DIST., TAIPEI CITY 105, TAIWAN

TEL: (02)2715-4567 FAX:(02)2545-8760

Date issued : Jan 23, 2025

To whom it may concern :

We, GPPC, hereby knowledgeablely certify that our product and Grade Name listed below

**60 POWDER 60 POWDER**

**ABS D-100, D-100N, D-120, D-120N, D-120A, D-120S, D-120F, D-120V, D-120SY, D-150, D-150HF, D-150K, D-150 LGT01, D-180, D-180L, D-650, D-670, D-450, D-470, D-957, D-1300, D-1300A, D-1300S**

**SAN D-12, D-20, D33M, D-33L**

does not contain the following chemicals with REACH concerned SVHC 247 substances ( $\leq 0.1\%$ ) .

Substance Name	CAS No.	Substance Name	CAS No.
Cobalt dichloride	7646-79-9	Sodium dichromate,dihydrate	7789-12-0
Diarsenic pentaoxide	1303-28-2	Diarsenic trioxide	1327-53-3
Lead hydrogen arsenate	7784-40-9	Triethyl arsenate	15606-95-8
Dibutyl phthalate, DBP	84-74-2	Bis (2-ethyl(hexyl)phthalate), DEHP	117-81-7
Benzyl butyl phthalate , BBP	85-68-7	Anthracene	120-12-7
Bis(tributyltin)oxide	56-35-9	5-tert-butyl-2,4,6- trinitro-m-xylene ,musk xylene	81-15-2
HBCDD, Hexabromocyclododecane	25637-99-4	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85595-84-8
4,4'-Diaminodiphenylmethane	101-77-9	Anthracene oil	90640-80-5
Anthracene oil, anthracene paste, distn. lights	91995-17-4	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
Anthracene oil, anthracene-low	90640-82-7	Anthracene oil, anthracene paste	90640-81-6
Coal tar pitch, high temperature	65996-93-2	Acryl amide	79-06-1
Aluminosilicate, Refractory Ceramic Fibers	(650-017-008)	Zirconia Aluminosilicate, Refractory Ceramic Fibers	(650-017-008)
2,4-Dinitrotoluene	121-14-2	Diisobutyl phthalate	84-69-5
Lead chromate	7758-97-6	Lead chromate molybdate sulphate red	12656-85-8
Lead sulfochromate yellow	1344-37-2	Tris(2-chloroethyl)phosphate	115-96-8
Trichloroethylene	79-01-6	Tetraboron disodium heptaoxide, hydrate	12267-73-1
Disodium tetraborate, anhydrous	1330-43-4	Boric acid	10043-35-3
	12179-04-3		11113-50-1
	1303-96-4		
Sodium chromate	7775-11-3	Potassium chromate	7789-00-6
Ammonium dichromate	7789-09-5	Potassium dichromate	7778-50-9
1,2,3-Trichlorobenzene	87-61-6	1,2,4-Trichlorobenzene	120-82-1



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Substance Name	CAS No.	Substance Name	CAS No.
1,3,5-Trichlorobenzene	108-70-3	Cobalt(II) sulfate	10124-43-3
Cobalt(II) dinitrate	10141-05-6	Cobalt(II) carbonate	513-79-1
Cobalt(II) (di)acetate	71-48-7	2-Methoxyethanol	109-86-4
2-Ethoxyethanol	110-80-5	Triochromium	1333-82-0
Acids generated from chromium trioxide and their oligomers: chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5 13530-68-2	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)	68515-42-4
2-ethoxyethyl acetate	111-15-9	Strontium chromate	7789-06-2
Hydrazine	7803-57-8 302-01-2	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6
1-methyl-2-pyrrolidone	872-50-4	1,2,3-trichloropropane	96-18-4
Dichromium tris(chromate)	24613-89-6	Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9
Pentazinc chromate octahydroxide	49663-84-5	Aluminosilicate Refractory Ceramic Fibres (RCF)	650-017-00-8
Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)	650-017-00-8	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
Bis(2-methoxyethyl) phthalate	117-82-8	2-Methoxyaniline; o-Anisidine	90-04-0
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	1,2-Dichloroethane	107-06-2
Bis(2-methoxyethyl) ether	111-96-6	Arsenic acid	7778-39-4
Calcium arsenate	7778-44-1	Trilead diarsenate	3687-31-8
N,N-dimethylacetamide (DMAC)	127-19-5	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	77-09-8
Phenolphthalein	101-14-4	Lead azide Lead diazide	13424-46-9
Lead styphnate	15245-44-0	Lead dipicrate	6477-64-1
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
Diboron trioxide	1303-86-2	Formamide	75-12-7
Lead(II)bis(methanesulfonate)	17570-76-2	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	59653-74-6	4,4'-bis(dimethylamino)benzophenone(Michler's ketone)	90-94-8
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1



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Substance Name	CAS No.	Substance Name	CAS No.
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9
$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	6-methoxy-m-toluidine (p-cresidine)	120-71-8
Pyrochlore, antimony lead yellow	8012-00-8	Henicosfluoroundecanoic acid	2058-94-8
Hexahydromethylphthalic anhydride	25550-51-0	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7
Hexahydro-4-methylphthalic anhydrid	19438-60-9	cis-cyclohexane-1,2-dicarboxylic anhydride	13149-00-3
Hexahydro-1-methylphthalic anhydride	48122-14-1	trans-cyclohexane-1,2-dicarboxylic anhydride	14166-21-3
Hexahydro-3-methylphthalic anhydride	57110-29-9		
Dibutyltin dichloride (DBTC)	683-18-1	Lead bis(tetrafluoroborate)	13814-96-5
Lead dinitrate	10099-74-8	Silicic acid, lead salt	11120-22-2
4-Aminoazobenzene	60-09-3	Lead titanium zirconium oxide	12626-81-2
Lead monoxide (lead oxide)	1317-36-8	o-Toluidine	95-53-4
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped	68784-75-8
Trilead bis(carbonate)dihydroxide	1319-46-6	Furan	110-00-9
N,N-dimethylformamide	68-12-2	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-
4-Nonylphenol, branched and linear	-	4,4'-methylenedi-o-toluidine	838-88-0
Diethyl sulphate	64-67-5	Dimethyl sulphate	77-78-1
Lead oxide sulfate	12036-76-9	Lead titanium trioxide	12060-00-3
Acetic acid, lead salt, basic	51404-69-4	[Phthalato(2-)]dioxotrilead	69011-06-9
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	N-methylacetamide	79-16-3
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	1,2-Diethoxyethane	629-14-1
Tetralead trioxide sulphate	12202-17-4	N-pentyl-isopentylphthalate	776297-69-9
Dioxobis(stearato)trilead	12578-12-0	Tetraethyllead	78-00-2
Pentalead tetraoxide sulphate	12065-90-6	Pentacosfluorotridecanoic acid	72629-94-8
Tricosfluorododecanoic acid	307-55-1	Heptacosfluorotetradecanoic acid	376-06-7
1-bromopropane (n-propyl bromide)	106-94-5	Methoxyacetic acid	625-45-6



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Substance Name	CAS No.	Substance Name	CAS No.
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	Methyloxirane (Propylene oxide)	75-56-9
Trilead dioxide phosphonate	12141-20-7	o-aminoazotoluene	97-56-3
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	4,4'-oxydianiline and its salts	101-80-4
Orange lead (lead tetroxide)	1314-41-6	Biphenyl-4-ylamine	92-67-1
Diisopentylphthalate	605-50-5	Fatty acids, C16-18, lead salts	91031-62-8
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	Sulfurous acid, lead salt, dibasic	62229-08-7
Lead cyanamidate	20837-86-9	Cadmium	7440-43-9
Cadmium oxide	1306-19-0	Dipentyl phthalate (DPP)	131-18-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	Pentadecafluorooctanoic acid (PFOA)	335-67-1
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]	-	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)	1937-37-7
Cadmium sulphide	1306-23-6	Dihexyl phthalate	84-75-3
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
Lead di(acetate)	301-04-2	Trixylyl phosphate	25155-23-1
Cadmium chloride	10108-64-2	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4
Sodium peroxometaborate	7632-04-4	Sodium perborate; perboric acid, sodium salt	-
Cadmium fluoride	7790-79-6	Cadmium sulphate	10124-36-43 1119-53-6
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	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)	-



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Substance Name	CAS No.	Substance Name	CAS No.
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5- methyl-1,3-dioxane [1],	-
	68648-93-1	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]	
Nitrobenzene	98-95-3	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)pheno- l (UV-327)	386-99-1
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)ph- enol (UV-350)	36437-37-3	1,3-propanesultone	1120-71-4
Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8
4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	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]	-
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	p-(1,1-dimethylpropyl) phenol = 4-tert-pentylphenol (PTAP)	80-46-6
Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4	Chrysene	218-01-9
Benz[a]anthracene	56-55-3	Cadmium nitrate	10325-94-7
Cadmium hydroxide	21041-95-2	Cadmium carbonate	513-78-0
1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octad- eca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear	-
Benzo[ghi]perylene	191-24-2	Octamethylcyclotetrasiloxane (D4)	556-67-2
Decamethylcyclopentasiloxane (D5)	541-02-6	Dodecamethylcyclohexasiloxane (D6)	540-97-6
Disodium octaborate	12008-41-2	Ethylenediamine	107-15-3
Lead	7439-92-1	Terphenyl hydrogenated	61788-32-7
Dicyclohexyl phthalate (DCHP)	84-61-7	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA)	552-30-7
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	Benzo[k]fluoranthene	207-08-9



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Substance Name	CAS No.	Substance Name	CAS No.
Fluoranthene	206-44-0	Phenanthrene	85-01-8
Pyrene	129-00-0	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	4-tert-butylphenol	98-54-4
2-methoxyethyl acetate	110-49-6	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propioni c acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-
Diisohexyl phthalate	71850-09-4	2-benzyl-2-dimethylamino-4'-morpholinobutyroph enone	119313-12-1
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan- 1-one	71868-10-5	Perfluorobutane sulfonic acid (PFBS) and its salts	-
1-vinylimidazole	1072-63-5	2-methylimidazole	693-98-1
butyl 4-hydroxybenzoate	94-26-8	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	Diocetyl tin 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	-
2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	Orthoboric acid, sodium salt	13840-56-7
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)	3296-90-0 36483-57-5/ 1522-92-5 96-13-9	Glutaral	111-30-8
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]	-	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-





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Substance Name	CAS No.	Substance Name	CAS No.
1,4-dioxane	123-91-1	4,4'-(1-methylpropylidene) bisphenol; (bisphenol B)	77-40-7
(±)-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)	-	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1
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	255881-94-8	tris(2-methoxyethoxy)vinylsilane	1067-53-4
N-(hydroxymethyl)acrylamide	924-42-5	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	
Perfluoroheptanoic acid and its salts: Ammonium perfluoroheptanoate potassium perfluoroheptanoate Perfluoroheptanoic acid Sodium perfluoroheptanoate	6130-43-4 21049-36-5 375-85-9 20109-59-5	Melamine	108-78-1
Isobutyl 4-hydroxybenzoate	4247-02-3	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7
Barium diboron tetraoxide	13701-59-2	4,4'-sulphonyldiphenol	80-09-1
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1
Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	75980-60-8	Bis(4-chlorophenyl) sulphone	80-07-9
2,4,6-tri-tert-butylphenol	732-26-3	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	Bumetrizole (UV-326)	3896-11-5
Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	Bis(α,α-dimethylbenzyl) peroxide	80-43-3
Triphenyl phosphate	115-86-6	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	2156592-54-8
O,O,O-triphenyl phosphorothioate	597-82-0	Octamethyltrisiloxane	107-51-7
Perfluamine	338-83-0	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8

Please feel free to use our product Thanks!  
SINCERELY YOURS,  
GRAND PACIFIC PETROCHEMICAL CORPORATION

*Yi-Shiue Lin*

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