

REACH SVHC DECLARATION

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Substance of Very High Concern (SVHC) Declaration

June 16, 2016

Dear Valued Customers,

Based on a diligent review of information provided by our laboratory personnel, Malvern Minerals Co. can report that our products do not contain above the 0.1% weight (w/w) threshold of any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list provided on the following page.

Be assured that Malvern Minerals Co. will continue to monitor the REACH regulations for any new Substances of Very High Concern (SVHC) that may be included in subsequent ECHA candidate lists Malvern Minerals Co. will compare any newly listed SVHC with the raw materials in our finished product lines and communicate this information to our customers.

Respectfully,

A handwritten signature in blue ink that reads "Thurston Pennington". The signature is written in a cursive style with a large initial 'T'.

Thurston Pennington
QC and Regulatory Compliance
Malvern Minerals Company
thurston.pennington@malvernminerals.com

The following substance, Novacite®, DOES NOT contain above the 0.1% weight (w/w) threshold of any Substance of Very High Concern (SVHC).

Novacite® Grade: ALL GRADES OF Novacite®	Date of Declaration: June 16, 2016
Item Description: Microcrystalline quartz - Silicon Dioxide	

Substance Name	EC Number	CAS Number	DOES (> 0.1% w/w)	DOES NOT (<0.01% w/w)
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5		X
1-Methyl-2-pyrrolidone	212-828-1	872-50-4		X
1,2-dichloroethane	203-458-1	107-06-2		X
1,2-Benzenedicarboxylic acid	271-084-6	68515-42-4		X
1,2-Benzenedicarboxylic acid with branched esters	276-158-1	71888-89-6		X
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0		X
1,2-diethoxyethane	211-076-1	629-14-1		X
1,2,3-Trichloropropane	202-486-1	96-18-4		X
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7		X
2,4-Dinitrotoluene	204-450-0	121-14-2		X
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4		X
2-Ethoxyethyl acetate	203-839-2	111-15-9		X
2-Ethoxyethanol	203-804-1	110-80-5		X
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3		X
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1		X
2-Methoxyethanol	203-713-7	109-86-4		X
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0		X
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1		X
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine				X
4-aminoazobenzene	200-453-6	60-09-3		X
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7		X
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9		X
4-(1,1,3,3-tetramethylbutyl) phenol	205-426-2	140-66-9		X
4-(1,1,3,3-tetramethylbutyl)phenol,ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-		X
4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-		X
4,4'-methylenedi-o-toluidene	212-658-8	838-88-0		X
4,4'-oxydianiline and its salts	202-977-0	101-80-4		X
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2		X
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8		X
Acetic acid, lead salt, basic	257-175-3	51404-69-4		X
Acids generated from chromium trioxides and their oligomers	231-801-5 236-881-5	7738-94-5 13530-68-2		X X
Acrylamide	201-173-7	79-06-1		X
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8		X
Aluminosilicate refractory fibres				X
Ammonium dichromate	232-143-1	7789-09-5		X
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1		X
Anthracene	204-371-1	120-12-7		X
Anthracene oil	292-602-7	90640-80-5		X
Anthracene oil, anthracene paste	292-603-2	90640-81-6		X
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2		X
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4		X

Anthracene oil, anthracene-low	292-604-8	90640-82-7		X
Arsenic acid	231-901-9	7778-39-4		X
Benzyl butyl phthalate	201-622-7	85-68-7		X
Biphenyl-4-ylamine	202-177-1	92-67-1		X
Bis (2-ethyl(hexyl)phthalate) (DEHP)	204-211-0	117-81-7		X
Bis (2-methoxyethyl) ether	203-924-4	111-96-6		X
Bis (2-methoxyethyl) phthalate	204-212-6	117-82-8		X
Bis (pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5		X
Bis(tributyltin)oxide	200-268-0	56-35-9		X
Boric acid	233-139-2	10043-35-3		X
Cadmium	231-152-8	7440-43-9		X
Cadmium oxide	215-146-2	1306-19-0		X
Calcium Arsenate	231-904-5	7778-44-1		X
Coal tar pitch, high temperature	266-028-2	65996-93-2		X
Cobalt dichloride	231-589-4	7646-79-9		X
Cobalt (II) carbonate	208-169-4	513-79-1		X
Cobalt (II) diacetate	200-755-8	71-48-7		X
Cobalt (II) dinitrate	233-402-1	10141-05-6		X
Cobalt (II) sulfate	233-334-2	10124-43-3		X
Chromium trioxide	215-607-8	1333-82-0		X
Cyclododecane	206-033-9	294-62-2		X
Cyclohexane-1,2-dicarboxylic anhydride [1]	201-604-9	85-42-7		X
cis-cyclohexane-1,2-dicarboxylic anhydride [2]	236-086-3	13149-00-3		X
trans-cyclohexane-1,2-dicarboxylic anhydride [3]	238-009-9	14166-21-3		X
<i>[The individual cis- [2] and trans- [3] isomer substances and all possible combination of the cis- and trans-isomers [1] are covered by this entry]</i>				
Diarsenic pentaoxide	215-116-9	1303-28-2		X
Diarsenic trioxide	215-481-4	1327-53-3		X
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3		X
Dibutyl phthalate (DBP)	201-557-4	84-74-2		X
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1		X
Dichromium tris(chromate)	246-356-2	24613-89-6		X
Diethyl sulphate	200-589-6	64-67-5		X
Diisobutyl phthalate	201-553-2	84-69-5		X
Diisopentylphthalate (DIPP)	210-088-4	605-50-5		X
Dimethyl sulphate	201-058-1	77-78-1		X
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7		X
Dioxobis(stearato)trilead	235-702-8	12578-12-0		X
Dipentyl phthalate (DPP)	205-017-9	131-18-0		X
Disodium tetraborate, anhydrous	215-540-4	1330-43-4		X
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8		X
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4		X
Furan	203-727-3	110-00-9		X
HenicosafLOURoundecanoic acid	218-165-4	2058-94-8		X
HeptacosafLOURotetradecanoic acid	206-803-4	376-06-7		X
Hexabromocyclododecane (HBCDD)	247-148-4	25637-99-4		X
Hexahydromethylphthalic anhydride [1]	247-094-1	25550-51-0		X
Hexahydro-4-methylphthalic anhydride [2]	243-072-0	19438-60-9		X
Hexahydro-1-methylphthalic anhydride [3]	256-356-4	48122-14-1		X
Hexahydro-3-methylphthalic anhydride [4]	260-566-1	57110-29-9		X
<i>[The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]</i>				
Hydrazine	206-114-9	302-01-2		X
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5		X
Lead chromate	231-846-0	7758-97-6		X
Lead chromate molybdate sulphate red	235-759-9	12656-85-8		X
Lead cyanidate	244-073-9	20837-86-9		X
Lead diazide, Lead azide	236-542-1	13424-46-9		X
Lead dinitrate	233-245-9	10099-74-8		X
Lead dipicrate	229-335-2	6477-64-1		X

Lead hydrogen arsenate	232-064-2	7784-40-9		X
Lead Monoxide (Lead oxide)	215-267-0	1317-36-8		X
Lead oxide sulfate	234-853-7	12036-76-9		X
Lead titanium trioxide	235-038-9	12060-00-3		X
Lead titanium zirconium oxide	235-727-4	12626-81-2		X
Lead styphnate	239-290-0	1545-44-0		X
Lead sulfochromate yellow	215-693-7	1344-37-2		X
N-methylacetamide	201-182-6	79-16-3		X
N-pentyl-isopentylphthalate	-	776297-69-9		X
N,N-dimethylformamide	200-679-5	68-12-2		X
N,N-dimethylacetamide	204-826-4	127-19-5		X
Methyloxirane (Propylene oxide)	200-879-2	75-56-9		X
Methoxyacetic acid	210-894-6	625-45-6		X
o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	202-591-2	97-56-3		X
o-toluidine	202-429-0	95-53-4		X
Orange lead (Lead tetroxide)	215-235-6	1314-41-6		X
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1		X
Pentacosafloortridecanoic acid	276-745-2	72629-94-8		X
Pentalead tetraoxide sulphate	235-067-7	12065-90-6		X
Pentazinc chromate octahydroxide	256-418-0	49663-84-5		X
Phenolphthalein	201-004-7	77-09-8		X
[Phthalato(2-)] dioxotrilead	273-688-5	69011-06-9		X
Potassium chromate	232-140-5	7789-00-6		X
Potassium dichromate	231-906-6	7778-50-9		X
Potassium hydroxyoctaoxidzincatedichromate	234-329-8	11103-86-9		X
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8		X
Silicic acid, lead salt	234-363-3	11120-22-2		X
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped <i>[with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DS); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]</i>	272-271-5	68784-75-8		X
Sodium chromate	231-889-5	7775-11-3		X
Sodium dichromate, dihydrate	234-190-3	7789-12-0		X
Strontium chromate	232-142-6	7789-06-2		X
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7		X
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1		X
Tetraethyllead	201-075-4	78-00-2		X
Tetralead trioxide sulfate	235-380-9	12202-17-4		X
Trichloroethylene	201-167-4	79-01-6		X
Tricosafloordodecanoic acid	206-203-2	307-55-1		X
Triethyl arsenate	427-700-2	15606-95-8		X
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6		X
Trilead diarsenate	222-979-5	3687-31-8		X
Trilead dioxide phosphonate	235-252-2	12141-20-7		X
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8		X
Zirconia Aluminosilicate	n/a	n/a		X
Zirconia Aluminosilicate and Aluminosilicate, Refractory Ceramic Fibres	CLP Index # 650-017-00-8			
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