

## ECHA Substances of Very High Concern

To whom it may concern,

On behalf of Power-Sonic Europe, I can confirm that none of the substances of very high concern (SVHC) mentioned in the European Chemicals Agency (ECHA) website and listed below are present in Power Sonic Valve Regulated Lead Acid batteries.

The list has been taken from the following link:  
<http://echa.europa.eu/web/guest/candidate-list-table>

K.Gainda  
Technical Manager

Chemical Name	EC Number	CAS No.
4,4'- Diaminodiphenylmethane	202-974-4	101-77-9
Bis (2-ethyl(hexyl)phthalate) (DEHP)	204-211-0	117-81-7
Anthracene	204-371-1	120-12-7
Diarsenic pentaoxide	215-116-9	1303-28-2
Diarsenic trioxide	215-481-4	1327-53-3
Triethyl arsenate	427-700-2	15606-95-8
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ -HBCDD, $\gamma$ - HBCDD)	247-148-4 and 221-695-9	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)
Bis(tributyltin)oxide; Tributyltin oxide	200-268-0	56-35-9
Cobalt dichloride	231-589-4	7646-79-9
Lead hydrogen arsenate	232-064-2	7784-40-9
Sodium dichromate	234-190-3	7789-12-0
		10588-01-9
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2



Dibutyl phthalate	201-557-4	84-74-2
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8
Benzyl butyl phthalate	201-622-7	85-68-7
Anthracene oil	292-602-7	90640-80-5
Anthracene oil, anthracene paste, distn. Lights	295-278-5	91995-17-4
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2
Anthracene oil, anthracene-low	292-604-8	90640-82-7
Anthracene oil, anthracene paste	292-603-2	90640-81-6
Coal tar pitch, high temperature	266-028-2	65996-93-2
2,4-Dinitrotoluene	204-450-0	121-14-2
Diisobutyl phthalate	201-553-2	84-69-5
Lead chromate	231-846-0	7758-97-6
Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	235-759-9	12656-85-8
Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	215-693-7	1344-37-2
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8
Acrylamide	201-173-7	79-06-1
Trichloroethylene	201-167-4	79-01-6
Boric acid	233-139-2 and 234-343-4	10043-35-3 and 11113-50-1
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1
Potassium chromate	232-140-5	7789-00-6
Ammonium dichromate	232-143-1	7789-09-5
Potassium dichromate	231-906-6	7778-50-9
sodium chromate	231-889-5	7775-11-3
Cobalt(II) sulphate	233-334-2	10124-43-3
Cobalt(II) dinitrate	233-402-1	10141-05-6
Cobalt (II) carbonate	208-169-4	513-79-1



Cobalt(II) diacetate	200-755-8	71-48-7
2-Methoxyethanol	203-713-7	109-86-4
2-Ethoxyethanol	203-804-1	110-80-5
Chromium trioxide	215-607-8	1333-82-0
Chromic acid	231-801-5	7738-94-5
Dichromic acid	236-881-5	13530-68-2
Oligomers of chromic acid and dichromic acid		
2-ethoxyethyl acetate	203-839-2	111-15-9
Strontium chromate	232-142-6	7789-06-2
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4
Hydrazine	206-114-9	302-01-2 and 7803-57-8
1-methyl-2-pyrrolidone	212-828-1	872-50-4
1,2,3-trichloropropane	202-486-1	96-18-4
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6
Zirconia Aluminosilicate Refractory Ceramic Fibres, fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008		
Calcium arsenate	231-904-5	7778-44-1
Bis(2-methoxyethyl) ether	203-924-4	111-96-6
Aluminosilicate Refractory Ceramic Fibres, are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008		
Potassium hydroxyoctaoxodizincatedichromate	234-329-8	11103-86-9
Lead dipicrate	229-335-2	6477-64-1
N,N-dimethylacetamide	204-826-4	127-19-5
Arsenic acid	231-901-9	7778-39-4
2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0
Trilead diarsenate	222-979-5	3687-31-8
1,2-dichloroethane	203-458-1	107-06-2
Pentazinc chromate octahydroxide	256-418-0	49663-84-5



4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8
Lead diazide, Lead azide	236-542-1	13424-46-9
Lead styphnate	239-290-0	15245-44-0
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4
Phenolphthalein	201-004-7	77-09-8
Dichromium tris(chromate)	246-356-2	24613-89-6
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4
Diboron trioxide	215-125-8	1303-86-2
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5
Formamide	200-842-0	75-12-7
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-



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	-	-
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	214-604-9	1163-19-5
Pentacosaflluorotridecanoic acid	276-745-2	72629-94-8
Tricosaflluorododecanoic acid	206-203-2	307-55-1
Henicosaflluoroundecanoic acid	218-165-4	2058-94-8
Heptacosaflluorotetradecanoic acid	206-803-4	376-06-7
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3
Cyclohexane-1,2-dicarboxylic anhydride [1]	201-604-9	85-42-7
Methoxyacetic acid	210-894-6	625-45-6
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0
Diisopentylphthalate	210-088-4	605-50-5
N-pentyl-isopentylphthalate	-	776297-69-9
1,2-Diethoxyethane	211-076-1	629-14-1
N,N-dimethylformamide	200-679-5	68-12-2
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1
Acetic acid, lead salt, basic	257-175-3	51404-69-4
Trilead bis(carbonate)dihydroxide	215-290-6	1319-46-6
Lead oxide sulfate	234-853-7	12036-76-9
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9
Dioxobis(stearato)trilead	235-702-8	12578-12-0
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5
Lead cyanamidate	244-073-9	20837-86-9
Lead dinitrate	233-245-9	10099-74-8
Lead monoxide (lead oxide)	215-267-0	1317-36-8
Orange lead (lead tetroxide)	215-235-6	1314-41-6
Lead titanium trioxide	235-038-9	12060-00-3



Lead titanium zirconium oxide	235-727-4	12626-81-2
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8
Pentalead tetraoxide sulphate	235-067-7	12065-90-6
Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped	272-271-5	68784-75-8
Silicic acid, lead salt	234-363-3	11120-22-2
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7
Tetraethyllead	201-075-4	78-00-2
Tetralead trioxide sulphate	235-380-9	12202-17-4
Trilead dioxide phosphonate	235-252-2	12141-20-7
Furan	203-727-3	110-00-9
Methyloxirane (Propylene oxide)	200-879-2	75-56-9
Diethyl sulphate	200-589-6	64-67-5
Dimethyl sulphate	201-058-1	77-78-1
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0
4,4'-oxydianiline and its salts	202-977-0	101-80-4
4-Aminoazobenzene	200-453-6	60-09-3
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8
Biphenyl-4-ylamine	202-177-1	92-67-1
o-aminoazotoluene	202-591-2	97-56-3
o-Toluidine	202-429-0	95-53-4
N-methylacetamide	201-182-6	79-16-3
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride	247-094-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9

MSC018 Rev 9 07/17

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