

# **Klemsan**

*Electric&Electronic Inc.  
Kızılızüm Mah.Kemalpaşa Kızılızüm Cad.No:15  
Kemalpaşa, IZMIR / TURKEY*



*Concern:*

*Compliance with the European Directive 1907/2006 EC “REACH”*

*We declare that all our products are in compliance with the REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) directives and they don't contain hazardous substances which are listed in the attached SVHC (Substances of very high concern) candidate list.*

*Mustafa KAYA*  
*Quality Assurance Manager*  
*İzmir, 18.02.2019*

*Annex 1: SVHC Candidate List*

Annex 1

Name	EC Number	CAS Number	Date of inclusion
1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	239-139-9	15087-24-8	15.01.2019
2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	15.01.2019
Benzo[k]fluoranthene	205-916-6	207-08-9	15.01.2019
Fluoranthene	205-912-4	206-44-0; 93951-69-0	15.01.2019
Phenanthrene	201-581-5	85-01-8	15.01.2019
Pyrene	204-927-3	129-00-0; 1718-52-1	15.01.2019
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	209-008-0	552-30-7	27.06.2018
Benzo[ghi]perylene	205-883-8	191-24-2	27.06.2018
Decamethylcyclopentasiloxane D5	208-764-9	541-02-6	27.06.2018
Dicyclohexyl phthalate DCHP	201-545-9	84-61-7	27.06.2018
Disodium octaborate	234-541-0	12008-41-2	27.06.2018
Dodecamethylcyclohexasiloxane D6	208-762-8	540-97-6	27.06.2018
Ethylenediamine EDA	203-468-6	107-15-3	27.06.2018
Lead	231-100-4	7439-92-1	27.06.2018
Octamethylcyclotetrasiloxane D4	209-136-7	556-67-2	27.06.2018
Terphenyl, hydrogenated	262-967-7	61788-32-7	27.06.2018
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15- diene ("Dechlorane Plus" <sup>TM</sup> ) covering any of its individual anti- and syn-isomers or any combination thereof	...	...	15.01.2018
Benz[a]anthracene	200-280-6	56-55-33 1718-53-2	15.01.2018
Cadmium Carbonate	208-168-9	513-78-0	15.01.2018
Cadmium hydroxide	244-168-5	21041-95-2	15.01.2018
Cadmium nitrate	233-710-6	10022-68- 1, 10325- 94-7	15.01.2018
Chrysene	205-923-4	218-01-9, 1719-03-5	15.01.2018
Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15- diene ("Dechlorane Plus" <sup>TM</sup> )	...	...	15.01.2018
Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	...	...	15.01.2018
Perfluorohexane-1-sulphonic acid and its salts PFHxS	...	...	07.07.2017
4,4-isopropylidenediphenol (bisphenol A; BPA)	201-245-8	80-05-7	12.01.2017
4-Heptylphenol, branched and linear	...	...	12.01.2017
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	...	...	12.01.2017
p-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	12.01.2017
Benzo[def]chrysene	200-028-5	50-32-8	20.06.2016
Nitrobenzene	202-716-0	98-95-3	17.12.2015
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	17.12.2015
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	17.12.2015
1,3-propanesultone	214-317-9	1120-71-4	17.12.2015
Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1, 21049-39- 8, 4149-60- 4	17.12.2015

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)	271-094-0, 272-013-1	68515-51-5, 68648-93-1	15.06.2015
5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [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]	...	...	15.06.2015
Bis (2-ethylhexyl)phthalate (DEHP)	204-211-0	117-81-7	2014/12/17; 2008/10/28
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	17.12.2014
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	17.12.2014
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	17.12.2014
Cadmium fluoride	232-222-0	7790-79-6	17.12.2014
Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	17.12.2014
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)	...	...	17.12.2014
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	271-093-5	68515-50-4	16.06.2014
Cadmium chloride	233-296-7	10108-64-2	16.06.2014
Sodium perborate,perboric acid, sodium salt	239-172-9, 234-390-0	...	16.06.2014
Sodium peroxometaborate	231-556-4	7632-4-4,	16.06.2014
Cadmium sulphide	215-147-8	1306-23-6	16.12.2013
Dihexyl phthalate	201-559-5	84-75-3	16.12.2013
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	16.12.2013
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)	217-710-3	1937-37-7	16.12.2013
Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	16.12.2013
Lead di(acetate)	206-104-4	301-04-2	16.12.2013
Trixylyl phosphate	246-677-8	25155-23-1	16.12.2013
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]	...	...	20.06.2013
Ammonium pentadecafluorooctanoate (APFO)	223-320-4	3825-26-1	20.06.2013
Cadmium	231-152-8	7440-43-9	20.06.2013
Cadmium oxide	215-146-2	1306-19-0	20.06.2013
Dipentyl phthalate (DPP)	205-017-9	131-18-0	20.06.2013
Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	20.06.2013
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	19.12.2012
1,2-Diethoxyethane	211-076-1	629-14-1	19.12.2012
1-bromopropane (n-propyl bromide)	203-445-0	106-94-5	19.12.2012
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	19.12.2012
4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	19.12.2012
4,4'-oxydianiline and its salts	202-977-0	101-80-4	19.12.2012
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	...	...	19.12.2012
4-Aminoazobenzene	200-453-6	60-09-3	19.12.2012
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	202-453-1	95-80-7	19.12.2012

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]	...	...	19.12.2012
6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	19.12.2012
[Phthalato(2-)]dioxotrilead	273-688-5	69011-06-9	19.12.2012
Acetic acid, lead salt, basic	257-175-3	51404-69-4	19.12.2012
Biphenyl-4-ylamine	202-177-1	92-67-1	19.12.2012
Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	214-604-9	1163-19-5	19.12.2012
Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	19.12.2012
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	204-650-8	123-77-3	19.12.2012
Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	19.12.2012
Diethyl sulphate	200-589-6	64-67-5	19.12.2012
Diisopentylphthalate	210-088-4	605-50-5	19.12.2012
Dimethyl sulphate	201-058-1	77-78-1	19.12.2012
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	201-861-7	88-85-7	19.12.2012
Dioxobis(stearato)trilead	235-702-8	12578-12-0	19.12.2012
Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	19.12.2012
Furan	203-727-3	110-00-9	19.12.2012
Henicosaflluoroundecanoic acid	218-165-4	2058-94-8	19.12.2012
Heptacosaflluorotetradecanoic acid	206-803-4	376-06-7	19.12.2012
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [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]	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	19.12.2012
Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	19.12.2012
Lead cyanamidate	244-073-9	20837-86-9	19.12.2012
Lead dinitrate	233-245-9	10099-74-8	19.12.2012
Lead monoxide (lead oxide)	215-267-0	1317-36-8	19.12.2012
Lead oxide sulfate	234-853-7	12036-76-9	19.12.2012
Lead titanium trioxide	235-038-9	12060-00-3	19.12.2012
Lead titanium zirconium oxide	235-727-4	12626-81-2	19.12.2012
Methoxyacetic acid	210-894-6	625-45-6	19.12.2012
Methyloxirane (Propylene oxide)	200-879-2	75-56-9	19.12.2012
N,N-dimethylformamide	200-679-5	68-12-2	19.12.2012
N-methylacetamide	201-182-6	79-16-3	19.12.2012
N-pentyl-isopentylphthalate		776297-69-9	19.12.2012
o-aminoazotoluene	202-591-2	97-56-3	19.12.2012
o-Toluidine	202-429-0	95-53-4	19.12.2012
Orange lead (lead tetroxide)	215-235-6	1314-41-6	19.12.2012
Pentacosaflluorotridecanoic acid	276-745-2	72629-94-8	19.12.2012
Pentalead tetraoxide sulphate	235-067-7	12065-90-6	19.12.2012
Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	19.12.2012
Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD),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]	272-271-5	68784-75-8	19.12.2012

Silicic acid, lead salt	234-363-3	11120-22-2	19.12.2012
Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	19.12.2012
Tetraethyllead	201-075-4	78-00-2	19.12.2012
Tetralead trioxide sulphate	235-380-9	12202-17-4	19.12.2012
Tricosafuorododecanoic acid	206-203-2	307-55-1	19.12.2012
Trilead bis(carbonate) dihydroxide	215-290-6	1319-46-6	19.12.2012
Trilead dioxide phosphonate	235-252-2	12141-20-7	19.12.2012
1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	203-977-3	112-49-2	18.06.2012
1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	18.06.2012
1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	219-514-3	2451-62-9	18.06.2012
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione ( $\beta$ -TGIC)	423-400-0	59653-74-6	18.06.2012
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq$ 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	18.06.2012
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	18.06.2012
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq$ 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	18.06.2012
[4-[[4-anilino-1-naphthyl]]4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq$ 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	18.06.2012
Diboron trioxide	215-125-8	1303-86-2	18.06.2012
Formamide	200-842-0	75-12-7	18.06.2012
Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	18.06.2012
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	18.06.2012
$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq$ 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	18.06.2012
1,2-Dichloroethane	203-458-1	107-06-2	19.12.2011
2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	19.12.2011
2-Methoxyaniline, o-Anisidine	201-963-1	90-04-0	19.12.2011
4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	19.12.2011
Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less than two standard geometric errors of 6 or less micrometres ( $\mu$ m) c) alkaline oxide and alkali earth oxide ( $\text{Na}_2\text{O}+\text{K}_2\text{O}+\text{CaO}+\text{MgO}+\text{BaO}$ ) content less or equal to 18% by weight	...	...	19.12.2011
Arsenic acid	231-901-9	7778-39-4	19.12.2011
Bis(2-methoxyethyl) ether	203-924-4	111-96-6	19.12.2011
Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	19.12.2011
Calcium arsenate	231-904-5	7778-44-1	19.12.2011
Dichromium tris(chromate)	246-356-2	24613-89-6	19.12.2011
Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	19.12.2011
Lead diazide, Lead azide	236-542-1	13424-46-9	19.12.2011
Lead dipicrate	229-335-2	6477-64-1	19.12.2011
Lead styphnate	239-290-0	15245-44-0	19.12.2011
N,N-dimethylacetamide	204-826-4	127-19-5	19.12.2011

Pentazinc chromate octahydroxide	256-418-0	49663-84-5	19.12.2011
Phenolphthalein	201-004-7	77-09-8	19.12.2011
Potassium hydroxyoctaoxidizincatedichromate	234-329-8	11103-86-9	19.12.2011
Trilead diarsenate	222-979-5	3687-31-8	19.12.2011
Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na <sub>2</sub> O+K <sub>2</sub> O+CaO+MgO+BaO) content less or equal to 18% by weight	...	...	19.12.2011
Cobalt dichloride	231-589-4	7646-79-9	2011/06/20 - 2008/10/28
1,2,3-trichloropropane	202-486-1	96-18-4	20.06.2011
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	20.06.2011
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	20.06.2011
1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	20.06.2011
2-Ethoxyethyl acetate	203-839-2	111-15-9	20.06.2011
Hydrazine	206-114-9	302-01-2, 7803-57-8	20.06.2011
Strontium chromate	232-142-6	7789-6-2,	20.06.2011
2-Ethoxyethanol	203-804-1	110-80-5	15.12.2010
2-Methoxyethanol	203-713-7	109-86-4	15.12.2010
Acids generated from chromium trioxide and their oligomers. Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid.	231-801-5, 236-881-5	7738-94-5, 13530-68-2	15.12.2010
Chromium trioxide	215-607-8	1333-82-0	15.12.2010
Cobalt(II) carbonate	208-169-4	513-79-1	15.12.2010
Cobalt(II) diacetate	200-755-8	71-48-7	15.12.2010
Cobalt(II) dinitrate	233-402-1	10141-05-6	15.12.2010
Cobalt(II) sulphate	233-334-2	10124-43-3	15.12.2010
Ammonium dichromate	232-143-1	7789-9-5,	18.06.2010
Boric acid	233-139-2, 234-343-4	10043-35-3, 11113-50-1	18.06.2010
Disodium tetraborate, anhydrous	215-540-4	1303-96-4, 1330-43-4, 12179-04-3	18.06.2010
Potassium chromate	232-140-5	7789-00-6	18.06.2010
Potassium dichromate	231-906-6	7778-50-9	18.06.2010
Sodium chromate	231-889-5	7775-11-3,	18.06.2010
Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	18.06.2010
Trichloroethylene	201-167-4	79-01-6	18.06.2010
Acrylamide	201-173-7	79-06-1	30.03.2010
2,4-Dinitrotoluene	204-450-0	121-14-2	13.01.2010
Anthracene oil	292-602-7	90640-80-5	13.01.2010
Anthracene oil, anthracene paste	292-603-2	90640-81-6	13.01.2010
Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	13.01.2010
Anthracene oil, anthracene paste, distn. lights	295-278-5	91995-17-4	13.01.2010
Anthracene oil, anthracene-low	292-604-8	90640-82-7	13.01.2010
Diisobutyl phthalate	201-553-2	84-69-5	13.01.2010
Lead chromate	231-846-0	7758-97-6	13.01.2010

Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	235-759-9	12656-85-8	13.01.2010
Lead sulfochromate yellow (C.I. Pigment Yellow 34)	215-693-7	1344-37-2	13.01.2010
Pitch, coal tar, high temp.	266-028-2	65996-93-2	13.01.2010
Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	13.01.2010
4,4'- Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	28.10.2008
5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	201-329-4	81-15-2	28.10.2008
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	28.10.2008
Anthracene	204-371-1	120-12-7	28.10.2008
Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	28.10.2008
Bis(tributyltin) oxide (TBTO)	200-268-0	56-35-9	28.10.2008
Diarsenic pentaoxide	215-116-9	1303-28-2	28.10.2008
Diarsenic trioxide	215-481-4	1327-53-3	28.10.2008
Dibutyl phthalate (DBP)	201-557-4	84-74-2	28.10.2008
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4, 221-695-9	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	28.10.2008
Lead hydrogen arsenate	232-064-2	7784-40-9	28.10.2008
Sodium dichromate	234-190-3	7789-12-0, 10588-01-9	28.10.2008
Triethyl arsenate	427-700-2	15606-95-8	28.10.2008