

**IMDS Analysis of REACH SVHC
NIDEC MOTORS & ACTUATORS**

In accordance with the Registration, Evaluation, Authorisation and Restriction of Chemicals (EC) No 1907/2006

This Analysis considers all substances of very high concern (SVHC) which are registered in the IMDS system at the "date of analysis" mentioned below.



This Analysis is based on the IMDS material declaration created by NIDEC, using received datasheets of suppliers. IMDS professional will not guarantee for the correctness of these data given in the IMDS system.

Order number:	MDS #1	
Part name	Motor SWMK	
MDS received on	created 13-September-2018	
MDS received from	own MDS	
MDS status	internally released	
Date of acceptance	n.a.	
Date of Analysis	20 October 2018	
NIDEC internal part number	405.177	
Identification number of analysed MDS	177226918	
Version number of analysed MDS	2	

Analysis Result : The product named above contains the following reportable substances (SVHC) according to Regulation (EC) No 1907/2006 (REACH)

LEAD

Detail 1: subcomponent "Drive Shaft / Welle A" (material C45GPb/C45Pb)
can potentially contain up to 0.3% of lead
(based on the strictest article definition)

Detail 2: subcomponent "Motor Shaft" (material 60SPb20+C+SR)
can potentially contain up to 0.25% of lead
(based on the strictest article definition)

Detail 3: subcomponent "Gear Housing" (material EN AC-AI Si11Cu2(Fe))
can potentially contain up to 0.25% of lead
(based on the strictest article definition)

Annex I: current list of REACh SVHC as valid on day of analysis

Note: Group entries are split in different rows.

for further information refer to <https://echa.europa.eu/candidate-list-table>

POS	Name of substance	CAS Number	date of inclusion
1	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	27/06/2018
2	Benzo[ghi]perylene	191-24-2	27/06/2018
3	Decamethylcyclopentasiloxane	541-02-6	27/06/2018
4	Dicyclohexyl phthalate	84-61-7	27/06/2018
5	Disodium octaborate	12008-41-2	27/06/2018
6	Dodecamethylcyclohexasiloxane	540-97-6	27/06/2018
7	Ethylenediamine	107-15-3	27/06/2018
8	Lead	7439-92-1	27/06/2018
9	Octamethylcyclotetrasiloxane	556-67-2	27/06/2018
10	Terphenyl, hydrogenated 1,6,7,8,9,14,15,16,17,17,18,18-	61788-32-7	27/06/2018
11	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM)	-	15/01/2018
12	Benz[a]anthracene	56-55-3, 1718-53-2	15/01/2018
13	Cadmium carbonate	513-78-0	15/01/2018
14	Cadmium hydroxide	21041-95-2	15/01/2018
15	Cadmium nitrate	10022-68-1, 10325-94-7	15/01/2018
16	Chrysene	218-01-9, 1719-03-5	15/01/2018
17	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	15/01/2018
18	Perfluorohexane-1-sulphonic acid and its salts	-	07/07/2017
19	4,4'-isopropylidenediphenol	80-05-7	12/01/2017
20	4-heptylphenol, branched and linear	-	12/01/2017
21	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	12/01/2017
22	Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3	12/01/2017
23	Nonadecafluorodecanoic acid	335-76-2	12/01/2017
24	Ammonium nonadecafluorodecanoate	3108-42-7	12/01/2017
25	p-(1,1-dimethylpropyl)phenol	80-46-6	12/01/2017
26	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	20/06/2016
27	1,3-propanesultone	1120-71-4	17/12/2015
28	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	17/12/2015
29	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	17/12/2015
30	Nitrobenzene	98-95-3	17/12/2015
31	Perfluorononan-1-oic-acid and its sodium and ammonium salts	-	17/12/2015
32	Ammonium salts of perfluorononan-1-oic-acid	-, 4149-60-4	17/12/2015
33	Perfluorononan-1-oic-acid	375-95-1	17/12/2015
34	Sodium salts of perfluorononan-1-oic-acid	-, 21049-39-8	17/12/2015
35	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	15/06/2015
36	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	15/06/2015
37	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5	15/06/2015
38	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]	-	15/06/2015
39	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	15/06/2015
40	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	15/06/2015
41	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	17/12/2014
42	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	17/12/2014

43	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	17/12/2014
44	Cadmium fluoride	7790-79-6	17/12/2014
45	Cadmium sulphate	10124-36-4, 31119-53-6	17/12/2014
46	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
47	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	16/06/2014
48	Cadmium chloride	10108-64-2	16/06/2014
49	Sodium perborate, perboric acid, sodium salt	-	16/06/2014
50	Sodium perborate	15120-21-5	16/06/2014
51	Perboric acid, sodium salt	11138-47-9	16/06/2014
52	Sodium peroxometaborate	7632-04-4	16/06/2014
53	Cadmium sulphide	1306-23-6	16/12/2013
54	Dihexyl phthalate	84-75-3	16/12/2013
55	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	16/12/2013
56	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	16/12/2013
57	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	16/12/2013
58	Lead di(acetate)	301-04-2	16/12/2013
59	Trixylyl phosphate	25155-23-1	16/12/2013
60	4-Nonylphenol, branched and linear, ethoxylated	-	20/06/2013
61	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	20/06/2013
62	Cadmium	7440-43-9	20/06/2013
63	Cadmium oxide	1306-19-0	20/06/2013
64	Dipentyl phthalate (DPP)	131-18-0	20/06/2013
65	Pentadecafluorooctanoic acid (PFOA)	335-67-1	20/06/2013
66	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	19/12/2012
67	1,2-diethoxyethane	629-14-1	19/12/2012
68	1-bromopropane (n-propyl bromide)	106-94-5	19/12/2012
69	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	19/12/2012
70	4,4'-methylenedi-o-toluidine	838-88-0	19/12/2012
71	4,4'-oxydianiline and its salts	-	19/12/2012
72	4,4'-oxydianiline	101-80-4	19/12/2012
73	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	19/12/2012
74	4-aminoazobenzene	60-09-3	19/12/2012
75	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	19/12/2012
76	4-Nonylphenol, branched and linear	-	19/12/2012
77	6-methoxy-m-toluidine (p-cresidine)	120-71-8	19/12/2012
78	[Phthalato(2-)]dioxotrilead	69011-06-9	19/12/2012
79	Acetic acid, lead salt, basic	51404-69-4	19/12/2012
80	Biphenyl-4-ylamine	92-67-1	19/12/2012
81	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	19/12/2012
82	Cyclohexane-1,2-dicarboxylic anhydride	-	19/12/2012
83	trans-cyclohexane-1,2-dicarboxylic anhydride	14166-21-3	19/12/2012
84	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7	19/12/2012
85	cis-cyclohexane-1,2-dicarboxylic anhydride	13149-00-3	19/12/2012
86	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	19/12/2012
87	Dibutyltin dichloride (DBTC)	683-18-1	19/12/2012
88	Diethyl sulphate	64-67-5	19/12/2012
89	Diisopentyl phthalate	605-50-5	19/12/2012

90	Dimethyl sulphate	77-78-1	19/12/2012
91	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	19/12/2012
92	Dioxobis(stearato)trilead	12578-12-0	19/12/2012
93	Fatty acids, C16-18, lead salts	91031-62-8	19/12/2012
94	Furan	110-00-9	19/12/2012
95	Henicosafluoroundecanoic acid	2058-94-8	19/12/2012
96	Heptacosafuorotetradecanoic acid	376-06-7	19/12/2012
97	Hexahydromethylphthalic anhydride	-	19/12/2012
98	Hexahydro-1-methylphthalic anhydride	48122-14-1	19/12/2012
99	Hexahydromethylphthalic anhydride	25550-51-0	19/12/2012
100	Hexahydro-4-methylphthalic anhydride	19438-60-9	19/12/2012
101	Hexahydro-3-methylphthalic anhydride	57110-29-9	19/12/2012
102	Lead bis(tetrafluoroborate)	13814-96-5	19/12/2012
103	Lead cyanamide	20837-86-9	19/12/2012
104	Lead dinitrate	10099-74-8	19/12/2012
105	Lead monoxide (lead oxide)	1317-36-8	19/12/2012
106	Lead oxide sulfate	12036-76-9	19/12/2012
107	Lead titanium trioxide	12060-00-3	19/12/2012
108	Lead titanium zirconium oxide	12626-81-2	19/12/2012
109	Methoxyacetic acid	625-45-6	19/12/2012
110	Methyloxirane (Propylene oxide)	75-56-9	19/12/2012
111	N,N-dimethylformamide	68-12-2	19/12/2012
112	N-methylacetamide	79-16-3	19/12/2012
113	N-pentyl-isopentylphthalate	776297-69-9	19/12/2012
114	o-aminoazotoluene	97-56-3	19/12/2012
115	o-toluidine	95-53-4	19/12/2012
116	Orange lead (lead tetroxide)	1314-41-6	19/12/2012
117	Pentacosafuorotridecanoic acid	72629-94-8	19/12/2012
118	Pentalead tetraoxide sulphate	12065-90-6	19/12/2012
119	Pyrochlore, antimony lead yellow	8012-00-8	19/12/2012
120	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	68784-75-8	19/12/2012
121	Silicic acid, lead salt	11120-22-2	19/12/2012
122	Sulfurous acid, lead salt, dibasic	62229-08-7	19/12/2012
123	Tetraethyllead	78-00-2	19/12/2012
124	Tetralead trioxide sulphate	12202-17-4	19/12/2012
125	Tricosafuorododecanoic acid	307-55-1	19/12/2012
126	Trilead bis(carbonate) dihydroxide	1319-46-6	19/12/2012
127	Trilead dioxide phosphonate	12141-20-7	19/12/2012
128	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	18/06/2012
129	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4	18/06/2012
130	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	18/06/2012
131	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	18/06/2012
132	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	18/06/2012
133	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	18/06/2012
134	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	18/06/2012
135	[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	18/06/2012
136	Diboron trioxide	1303-86-2	18/06/2012
137	Formamide	75-12-7	18/06/2012
138	Lead(II) bis(methanesulfonate)	17570-76-2	18/06/2012
139	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	18/06/2012
140	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	18/06/2012
141	1,2-dichloroethane	107-06-2	19/12/2011
142	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	19/12/2011
143	2-Methoxyaniline, o-Anisidine	90-04-0	19/12/2011
144	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	19/12/2011

145	Aluminosilicate Refractory Ceramic Fibres	-	19/12/2011
146	Arsenic acid	7778-39-4	19/12/2011
147	Bis(2-methoxyethyl) ether	111-96-6	19/12/2011
148	Bis(2-methoxyethyl) phthalate	117-82-8	19/12/2011
149	Calcium arsenate	7778-44-1	19/12/2011
150	Dichromium tris(chromate)	24613-89-6	19/12/2011
151	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	19/12/2011
152	Lead diazide, Lead azide	13424-46-9	19/12/2011
153	Lead dipicrate	6477-64-1	19/12/2011
154	Lead styphnate	15245-44-0	19/12/2011
155	N,N-dimethylacetamide	127-19-5	19/12/2011
156	Pentazinc chromate octahydroxide	49663-84-5	19/12/2011
157	Phenolphthalein	77-09-8	19/12/2011
158	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	19/12/2011
159	Trilead diarsenate	3687-31-8	19/12/2011
160	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	19/12/2011
161	1,2,3-trichloropropane	96-18-4	20/06/2011
162	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	20/06/2011
163	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	20/06/2011
164	1-Methyl-2-pyrrolidone (NMP)	872-50-4	20/06/2011
165	2-ethoxyethyl acetate	111-15-9	20/06/2011
166	Hydrazine	302-01-2, 7803-57-8	20/06/2011
167	Strontium chromate	7789-06-2	20/06/2011
168	2-ethoxyethanol	110-80-5	15/12/2010
169	2-methoxyethanol	109-86-4	15/12/2010
170	Acids generated from chromium trioxide and their oligomers	-	15/12/2010
171	Oligomers of chromic acid and dichromic acid	-	15/12/2010
172	Dichromic acid	7738-94-5	15/12/2010
173	Chromic acid	13530-68-2	15/12/2010
174	Chromium trioxide	1333-82-0	15/12/2010
175	Cobalt(II) carbonate	513-79-1	15/12/2010
176	Cobalt(II) diacetate	71-48-7	15/12/2010
177	Cobalt(II) dinitrate	10141-05-6	15/12/2010
178	Cobalt(II) sulphate	10124-43-3	15/12/2010
179	Ammonium dichromate	7789-09-5	18/06/2010
180	Boric acid	-	18/06/2010
181	Boric acid, crude natural	11113-50-1	18/06/2010
182	Boric acid	10043-35-3	18/06/2010
183	Disodium tetraborate, anhydrous	12179-04-3, 1303-96-4, 1330-43-4	18/06/2010
184	Potassium chromate	7789-00-6	18/06/2010
185	Potassium dichromate	7778-50-9	18/06/2010
186	Sodium chromate	7775-11-3	18/06/2010
187	Tetraboron disodium heptaoxide, hydrate	12267-73-1	18/06/2010
188	Trichloroethylene	79-01-6	18/06/2010
189	Acrylamide	79-06-1	30/03/2010
190	2,4-dinitrotoluene	121-14-2	13/01/2010
191	Anthracene oil	90640-80-5	13/01/2010
192	Anthracene oil, anthracene paste	90640-81-6	13/01/2010
193	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	13/01/2010
194	Anthracene oil, anthracene paste, distr. lights	91995-17-4	13/01/2010
195	Anthracene oil, anthracene-low	90640-82-7	13/01/2010
196	Diisobutyl phthalate	84-69-5	13/01/2010
197	Lead chromate	7758-97-6	13/01/2010
198	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	13/01/2010
199	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	13/01/2010
200	Pitch, coal tar, high-temp.	65996-93-2	13/01/2010
201	Tris(2-chloroethyl) phosphate	115-96-8	13/01/2010
202	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	28/10/2008
203	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	28/10/2008

204	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	28/10/2008
205	Anthracene	120-12-7	28/10/2008
206	Benzyl butyl phthalate (BBP)	85-68-7	28/10/2008
207	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	28/10/2008
208	Bis(tributyltin) oxide (TBTO)	56-35-9	28/10/2008
209	Cobalt dichloride	7646-79-9	28/10/2008
210	Diarsenic pentaoxide	1303-28-2	28/10/2008
211	Diarsenic trioxide	1327-53-3	28/10/2008
212	Dibutyl phthalate (DBP)	84-74-2	28/10/2008
213	Hexabromocyclododecane (HBCDD)	-	28/10/2008
214	Hexabromocyclododecane	25637-99-4	28/10/2008
215	1,2,5,6,9,10-hexabromocyclododecane	3194-55-6	28/10/2008
216	alpha-hexabromocyclododecane	134237-50-6	28/10/2008
217	beta-hexabromocyclododecane	134237-51-7	28/10/2008
218	gamma-hexabromocyclododecane	134237-52-8	28/10/2008
219	Lead hydrogen arsenate	7784-40-9	28/10/2008
220	Sodium dichromate	10588-01-9, 7789-12-0	28/10/2008
221	Triethyl arsenate	15606-95-8	28/10/2008