

**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.

<b>Order number:</b>	<b>MDS #1</b>	
Part name	MOTOR GMPI	
MDS received on	created 03-February-2015	
MDS received from	own MDS	
MDS status	internally released	
Date of acceptance	n.a.	
Date of Analysis	17 February 2021	
NIDEC internal part number	<b>405.667</b>	
Identification number of analysed MDS	519035809	
Version number of analysed MDS	1	

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

**LEAD**

Detail 1: subcomponent "Welle A / Drive Shaft" (material "C45GPb; C45Pb")  
can potentially contain up to 0.3% 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	Triethyl arsenate	15606-95-8	28/10/2008
2	Sodium dichromate	10588-01-9, 7789-12-0	28/10/2008
3	Lead hydrogen arsenate	7784-40-9	28/10/2008
4	gamma-hexabromocyclododecane	134237-52-8	28/10/2008
5	beta-hexabromocyclododecane	134237-51-7	28/10/2008
6	alpha-hexabromocyclododecane	134237-50-6	28/10/2008
7	1,2,5,6,9,10-hexabromocyclododecane	3194-55-6	28/10/2008
8	Hexabromocyclododecane	25637-99-4	28/10/2008
9	Hexabromocyclododecane (HBCDD)	-	28/10/2008
10	Dibutyl phthalate (DBP)	84-74-2	28/10/2008
11	Diarsenic trioxide	1327-53-3	28/10/2008
12	Diarsenic pentaoxide	1303-28-2	28/10/2008
13	Cobalt dichloride	7646-79-9	28/10/2008
14	Bis(tributyltin) oxide (TBTO)	56-35-9	28/10/2008
15	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	28/10/2008
16	Benzyl butyl phthalate (BBP)	85-68-7	28/10/2008
17	Anthracene	120-12-7	28/10/2008
18	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	28/10/2008
19	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	28/10/2008
20	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	28/10/2008
21	Tris(2-chloroethyl) phosphate	115-96-8	13/01/2010
22	Pitch, coal tar, high-temp.	65996-93-2	13/01/2010
23	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	13/01/2010
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	13/01/2010
25	Lead chromate	7758-97-6	13/01/2010
26	Diisobutyl phthalate	84-69-5	13/01/2010
27	Anthracene oil, anthracene-low	90640-82-7	13/01/2010
28	Anthracene oil, anthracene paste, distn. lights	91995-17-4	13/01/2010
29	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	13/01/2010
30	Anthracene oil, anthracene paste	90640-81-6	13/01/2010
31	Anthracene oil	90640-80-5	13/01/2010
32	2,4-dinitrotoluene	121-14-2	13/01/2010
33	Acrylamide	79-06-1	30/03/2010
34	Trichloroethylene	79-01-6	18/06/2010
35	Tetraboron disodium heptaoxide, hydrate	12267-73-1	18/06/2010
36	Sodium chromate	7775-11-3	18/06/2010
37	Potassium dichromate	7778-50-9	18/06/2010
38	Potassium chromate	7789-00-6	18/06/2010
39	Disodium tetraborate, anhydrous	12179-04-3, 1303-96-4, 1330-43-4	18/06/2010
40	Boric acid	10043-35-3	18/06/2010
41	Boric acid, crude natural	11113-50-1	18/06/2010
42	Boric acid	-	18/06/2010
43	Ammonium dichromate	7789-09-5	18/06/2010
44	Cobalt(II) sulphate	10124-43-3	15/12/2010
45	Cobalt(II) dinitrate	10141-05-6	15/12/2010
46	Cobalt(II) diacetate	71-48-7	15/12/2010
47	Cobalt(II) carbonate	513-79-1	15/12/2010
48	Chromium trioxide	1333-82-0	15/12/2010
49	Chromic acid	13530-68-2	15/12/2010
50	Dichromic acid	7738-94-5	15/12/2010
51	Oligomers of chromic acid and dichromic acid	-	15/12/2010
52	Acids generated from chromium trioxide and their oligomers	-	15/12/2010
53	2-methoxyethanol	109-86-4	15/12/2010
54	2-ethoxyethanol	110-80-5	15/12/2010
55	Strontium chromate	7789-06-2	20/06/2011
56	Hydrazine	302-01-2, 7803-57-8	20/06/2011
57	2-ethoxyethyl acetate	111-15-9	20/06/2011
58	1-Methyl-2-pyrrolidone (NMP)	872-50-4	20/06/2011

59	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	20/06/2011
60	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	20/06/2011
61	1,2,3-trichloropropane	96-18-4	20/06/2011
62	Zirconia Aluminosilicate Refractory Ceramic Fibres	-	19/12/2011
63	Trilead diarsenate	3687-31-8	19/12/2011
64	Potassium hydroxyoctaoxidizincatedichromate	11103-86-9	19/12/2011
65	Phenolphthalein	77-09-8	19/12/2011
66	Pentazinc chromate octahydroxide	49663-84-5	19/12/2011
67	N,N-dimethylacetamide	127-19-5	19/12/2011
68	Lead styphnate	15245-44-0	19/12/2011
69	Lead dipicrate	6477-64-1	19/12/2011
70	Lead diazide, Lead azide	13424-46-9	19/12/2011
71	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	19/12/2011
72	Dichromium tris(chromate)	24613-89-6	19/12/2011
73	Calcium arsenate	7778-44-1	19/12/2011
74	Bis(2-methoxyethyl) phthalate	117-82-8	19/12/2011
75	Bis(2-methoxyethyl) ether	111-96-6	19/12/2011
76	Arsenic acid	7778-39-4	19/12/2011
77	Aluminosilicate Refractory Ceramic Fibres	-	19/12/2011
78	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	19/12/2011
79	2-Methoxyaniline, o-Anisidine	90-04-0	19/12/2011
80	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	19/12/2011
81	1,2-dichloroethane	107-06-2	19/12/2011
82	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	18/06/2012
83	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	18/06/2012
84	Lead(II) bis(methanesulfonate)	17570-76-2	18/06/2012
85	Formamide	75-12-7	18/06/2012
86	Diboron trioxide	1303-86-2	18/06/2012
87	[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
88	[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
89	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	18/06/2012
90	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	18/06/2012
91	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	18/06/2012
92	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	18/06/2012
93	1,2-dimethoxyethane,ethylene glycol dimethyl ether (EGDME)	110-71-4	18/06/2012
94	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	18/06/2012
95	Trilead dioxide phosphonate	12141-20-7	19/12/2012
96	Trilead bis(carbonate) dihydroxide	1319-46-6	19/12/2012
97	Tricosafuorododecanoic acid	307-55-1	19/12/2012
98	Tetralead trioxide sulphate	12202-17-4	19/12/2012
99	Tetraethyllead	78-00-2	19/12/2012
100	Sulfurous acid, lead salt, dibasic	62229-08-7	19/12/2012
101	Silicic acid, lead salt	11120-22-2	19/12/2012
102	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped	68784-75-8	19/12/2012
103	Pyrochlore, antimony lead yellow	8012-00-8	19/12/2012
104	Pentalead tetraoxide sulphate	12065-90-6	19/12/2012
105	Pentacosafuorotridecanoic acid	72629-94-8	19/12/2012
106	Orange lead (lead tetroxide)	1314-41-6	19/12/2012
107	o-toluidine	95-53-4	19/12/2012
108	o-aminoazotoluene	97-56-3	19/12/2012

109	N-pentyl-isopentylphthalate	776297-69-9	19/12/2012
110	N-methylacetamide	79-16-3	19/12/2012
111	N,N-dimethylformamide	68-12-2	19/12/2012
112	Methyloxirane (Propylene oxide)	75-56-9	19/12/2012
113	Methoxyacetic acid	625-45-6	19/12/2012
114	Lead titanium zirconium oxide	12626-81-2	19/12/2012
115	Lead titanium trioxide	12060-00-3	19/12/2012
116	Lead oxide sulfate	12036-76-9	19/12/2012
117	Lead monoxide (lead oxide)	1317-36-8	19/12/2012
118	Lead dinitrate	10099-74-8	19/12/2012
119	Lead cyanamidate	20837-86-9	19/12/2012
120	Lead bis(tetrafluoroborate)	13814-96-5	19/12/2012
121	Hexahydro-3-methylphthalic anhydride	57110-29-9	19/12/2012
122	Hexahydro-4-methylphthalic anhydride	19438-60-9	19/12/2012
123	Hexahydromethylphthalic anhydride	25550-51-0	19/12/2012
124	Hexahydro-1-methylphthalic anhydride	48122-14-1	19/12/2012
125	Hexahydromethylphthalic anhydride	-	19/12/2012
126	Heptacosafuorotetradecanoic acid	376-06-7	19/12/2012
127	Henicosafuoroundecanoic acid	2058-94-8	19/12/2012
128	Furan	110-00-9	19/12/2012
129	Fatty acids, C16-18, lead salts	91031-62-8	19/12/2012
130	Dioxobis(stearato)trilead	12578-12-0	19/12/2012
131	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	19/12/2012
132	Dimethyl sulphate	77-78-1	19/12/2012
133	Diisopentyl phthalate	605-50-5	19/12/2012
134	Diethyl sulphate	64-67-5	19/12/2012
135	Dibutyltin dichloride (DBTC)	683-18-1	19/12/2012
136	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	19/12/2012
137	cis-cyclohexane-1,2-dicarboxylic anhydride	13149-00-3	19/12/2012
138	Cyclohexane-1,2-dicarboxylic anhydride	85-42-7	19/12/2012
139	trans-cyclohexane-1,2-dicarboxylic anhydride	14166-21-3	19/12/2012
140	Cyclohexane-1,2-dicarboxylic anhydride	-	19/12/2012
141	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	19/12/2012
142	Biphenyl-4-ylamine	92-67-1	19/12/2012
143	Acetic acid, lead salt, basic	51404-69-4	19/12/2012
144	[Phthalato(2-)]dioxotrilead	69011-06-9	19/12/2012
145	6-methoxy-m-toluidine (p-cresidine)	120-71-8	19/12/2012
146	4-Nonylphenol, branched and linear	-	19/12/2012
147	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	19/12/2012
148	4-aminoazobenzene	60-09-3	19/12/2012
149	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	19/12/2012
150	4,4'-oxydianiline	101-80-4	19/12/2012
151	4,4'-oxydianiline and its salts	-	19/12/2012
152	4,4'-methylenedi-o-toluidine	838-88-0	19/12/2012
153	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	19/12/2012
154	1-bromopropane (n-propyl bromide)	106-94-5	19/12/2012
155	1,2-diethoxyethane	629-14-1	19/12/2012
156	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	19/12/2012
157	Pentadecafluorooctanoic acid (PFOA)	335-67-1	20/06/2013
158	Dipentyl phthalate (DPP)	131-18-0	20/06/2013
159	Cadmium oxide	1306-19-0	20/06/2013
160	Cadmium	7440-43-9	20/06/2013
161	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	20/06/2013
162	4-Nonylphenol, branched and linear, ethoxylated	-	20/06/2013
163	Trixylyl phosphate	25155-23-1	16/12/2013
164	Lead di(acetate)	301-04-2	16/12/2013
165	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	16/12/2013
166	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

167	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
168	Dihexyl phthalate	84-75-3	16/12/2013
169	Cadmium sulphide	1306-23-6	16/12/2013
170	Sodium peroxometaborate	7632-04-4	16/06/2014
171	Perboric acid, sodium salt	11138-47-9	16/06/2014
172	Sodium perborate	15120-21-5	16/06/2014
173	Sodium perborate, perboric acid, sodium salt	-	16/06/2014
174	Cadmium chloride	10108-64-2	16/06/2014
175	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	16/06/2014
176	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
177	Cadmium sulphate	10124-36-4, 31119-53-6	17/12/2014
178	Cadmium fluoride	7790-79-6	17/12/2014
179	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	17/12/2014
180	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	17/12/2014
181	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	17/12/2014
182	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	15/06/2015
183	5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	-	15/06/2015
184	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
185	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5	15/06/2015
186	1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	15/06/2015
187	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	15/06/2015
188	Sodium salts of perfluorononan-1-ic-acid	-, 21049-39-8	17/12/2015
189	Perfluorononan-1-ic-acid	375-95-1	17/12/2015
190	Ammonium salts of perfluorononan-1-ic-acid	-, 4149-60-4	17/12/2015
191	Perfluorononan-1-ic-acid and its sodium and ammonium salts	-	17/12/2015
192	Nitrobenzene	98-95-3	17/12/2015
193	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	17/12/2015
194	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	17/12/2015
195	1,3-propanesultone	1120-71-4	17/12/2015
196	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	20/06/2016
197	p-(1,1-dimethylpropyl)phenol	80-46-6	12/01/2017
198	Ammonium nonadecafluorodecanoate	3108-42-7	12/01/2017
199	Nonadecafluorodecanoic acid	335-76-2	12/01/2017
200	Decanoic acid, nonadecafluoro-, sodium salt	3830-45-3	12/01/2017
201	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	-	12/01/2017
202	4-heptylphenol, branched and linear	-	12/01/2017
203	4,4'-isopropylidenediphenol	80-05-7	12/01/2017
204	Perfluorohexane-1-sulphonic acid and its salts	-	07/07/2017
205	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	15/01/2018
206	Chrysene	218-01-9, 1719-03-5	15/01/2018

207	Cadmium nitrate	10022-68-1, 10325-94-7	15/01/2018
208	Cadmium hydroxide	21041-95-2	15/01/2018
209	Cadmium carbonate	513-78-0	15/01/2018
210	Benz[a]anthracene	56-55-3, 1718-53-2	15/01/2018
	1,6,7,8,9,14,15,16,17,17,18,18-		
211	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	15/01/2018
212	Terphenyl, hydrogenated	61788-32-7	27/06/2018
213	Octamethylcyclotetrasiloxane	556-67-2	27/06/2018
214	Lead	7439-92-1	27/06/2018
215	Ethylenediamine	107-15-3	27/06/2018
216	Dodecamethylcyclohexasiloxane	540-97-6	27/06/2018
217	Disodium octaborate	12008-41-2	27/06/2018
218	Dicyclohexyl phthalate	84-61-7	27/06/2018
219	Decamethylcyclopentasiloxane	541-02-6	27/06/2018
220	Benzo[ghi]perylene	191-24-2	27/06/2018
221	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	27/06/2018
222	Pyrene	129-00-0	15-01-19
223	Phenanthrene	85-01-8	15-01-19
224	Fluoranthene	206-44-0	15-01-19
225	Benzo[k]fluoranthene	207-08-9	15-01-19
226	2,2-bis(4'-hydroxyphenyl)-4-methylpentane 1,7,7-trimethyl-3-	6807-17-6	15-01-19
227	(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	15-01-19
	Tris(4-nonylphenyl, branched and linear)		
228	phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	diverse	16-07-19
229	4-tert-butylphenol	98-54-4	16-07-19
230	2-methoxyethyl acetate	110-49-6	16-07-19
	2,3,3,3-tetrafluoro-2-		
231	(heptafluoropropoxy)propionic acid, its salts and its acyl halides	diverse	16-07-19
232	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	16-01-20
233	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	16-01-20
234	Diisohexyl phthalate	71850-09-4	16-01-20
235	Perfluorobutane sulfonic acid (PFBS) and its salts	diverse	16-01-20
	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	25-06-20
	butyl 4-hydroxybenzoate	94-26-8	25-06-20
	2-methylimidazole	693-98-1	25-06-20
	1-vinylimidazole	1072-63-5	25-06-20
	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	19-01-21
	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivatives	diverse	19-01-21