



# KOS LIMITED

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## Declaration of compliance to GADSL

### Confirmation

Dear Our Valued Customer, SAPA ACCIAI S.R.L

**KOSWIRE ltd. here by confirms that the KOS products (Stainless steel wire : HS CODE 7223.00)  
are compliant to restrictions on substances as follow norm.**

GADSL (The global automotive declarable substance list) : <http://www.gadsl.org/>

The involved list will be followed from the next page.

2016.05.11

Seong-soo, KIM

Q. A. Dep / Manager

KOS LIMITED

SIGN: S. S. Kim

Tab: DC - regulations for division Drive and Control Technology DC						
regulated substances	CAS number	limit value	concentration of ingredient (mass%)	Designation of the material that contains the regulated substance	comments	
<b>Prohibited substances (P)</b>						
1	lead, cadmium, chromium IV and mercury in coating materials for vernishing	7439-92-1 7440-43-9 1333-82-0 7439-97-6	0,1m%	0%	N/A	
<b>Substance rated declarable (D)</b>						
2	polychlorinated naphthalenes (more than 3 chlorine atoms)	70776-03-3	0,1m%	0	N/A	"Green Passport" Shipbuilding
3	silicones	material group		0	N/A	see special prohibitions in certain auxiliary manufacturing materials (tab 9)
4	zinc compounds	material group		0	N/A	see special prohibitions in certain auxiliary manufacturing materials (tab 9)

diverse Rules (tab1)						
regulated substances	CAS number	limit value	concentration of ingredient (mass%)	Designation of the material that contains the regulated substance	comments	
<b>Prohibited substances (P)</b>						
5	asbestos, all material group	material group	Prohibition to use (for REACH validity area the additional prohibition of production and beginning of service applies)	0	N/A	
6	perfluorooctanesulfonic acid and its derivatives (PFOS)	material group	Prohibition to use, exceptions see regulation	0	N/A	Persistent organic pollutants (POP), Regulation (EC) No 850/2004
7	radioactive materials	material group	above natural background emission; exception: ionization smoke detectors	0	N/A	Persistent organic pollutants (POP), Regulation (EC) No 850/2004, 757/2010
8	biocides (EC Biocide regulation)	material group	as listed in regulation	0	N/A	Persistent organic pollutants (POP), Regulation (EC) No 850/2004, 757/2010
<b>Substance rated declarable (D)</b>						
9	3,3',5,5' tetrabrombisphenol A (TBBPA)	79-94-7	0,1m%	0	N/A	
10	N,N'-di-o-tolylguanidine (DOTG)	97-39-2	0,1m%	0	N/A	Listed in GADSL; May contain and emit o-toluidine. With o-toluidine contents >0.1 percent in the mixture has to be considered carcinogenic. Additionally the material data sheet o-toluidine has to be observed.
11	Perfluorooctanoic acid (PFOA) and its salts	material group	0,1m%	0	N/A	Listed in GADSL ; scheduled prohibition acc. to EPA in 2015

**Rules for polycyclical aromatic hydrocarbons (tab 3)**

regulated substances	CAS number	limit value	concentration of ingredient (mass%)	Designation of the material that contains the regulated substance	comments
<b>Prohibited substances (P)</b>					
12 Benzo(a)pyrene	50-32-8	General obligation to declare per ea. PAH from 1 ppm prohibition per PAH a) <1 mg/kg (1 ppm) if to be available for the general public and if components of plastic or rubber, which in regular, reasonable or foreseeable use come into contact with skin or the mouth cavity for a longer time, or repeatedly for a shorter time b) <0,5 mg/kg (0,5 ppm) for toys/products for infants and toddlers and components of plastic or rubber which in regular, reasonable or foreseeable use come into contact with skin or the mouth cavity for a longer time, or repeatedly for a shorter time	0	N/A	EPA* + GADSL + Reach Annex XVII
13 Acenaphthene	83-32-9		0	N/A	EPA*
14 acenaphthylene	208-96-8		0	N/A	EPA*
15 anthracene	120-12-7		0	N/A	REACH + EPA* + GADSL
16 Benzo(a)anthracene	56-55-3		0	N/A	EPA* + GADSL + Reach Annex XVII
17 Benzo[j]fluoranthene			0	N/A	Reach Annex XVII
18 Benzo[e]acephenanthrylene	205-99-2		0	N/A	EPA* + GADSL + Reach Annex XVII
19 Benzo[e]pyrene			0	N/A	Reach Annex XVII
20 Benzo[ghi]perylene	191-24-2		0	N/A	EPA*
21 Benzo[k]fluoranthene	207-08-9		0	N/A	EPA* + GADSL + Reach Annex XVII
22 Chrysene	218-01-9		0	N/A	EPA* + GADSL + Reach Annex XVII
23 Dibenzo[a,h]-anthracene	53-70-3		0	N/A	EPA* + GADSL + Reach Annex XVII
24 Fluoranthene	206-44-0		0	N/A	EPA*
25 Fluorene	86-73-7		0	N/A	EPA*
26 Indeno(1,2,3-cd)pyrene	193-39-5	0	N/A	EPA*	
27 Naphthalene	91-20-3	0	N/A	EPA*	
28 Phenanthrene	85-01-8	0	N/A	EPA*	
29 Pyrene	129-00-0	0	N/A	EPA*	

**Rules for plasticizers / phthalates (tab 4)**

regulated substances	CAS number	limit value (mass%)	concentration of ingredient (mass%)	Designation of the material that contains the regulated substance	comments
<b>Substance rated declarable (D)</b>					
30 Bis(hydroxyethyl) terephthalate	959-26-2	0.1	0	N/A	
31 Butyl cyclohexyl phthalate	84-64-0	0.1	0	N/A	
32 Butyl decyl phthalate	89-19-0	0.1	0	N/A	
33 Diallyl Phthalate	131-17-9	0.1	0	N/A	
34 Dicyclohexyl Phthalate	84-61-7	0.1	0	N/A	
35 Diisodecyl phthalate	26761-40-0	0.1	0	N/A	
36 Diethyl phthalate	84-66-2	0.1	0	N/A	
37 Diisobutylphthalate	84-69-5	0.1	0	N/A	SVHC
38 Diisoheptylphthalate	41451-28-9	0.1	0	N/A	
39 Diisohexylphthalate	146-50-9	0.1	0	N/A	
40 Diisopentylphthalate (DIPP)	605-50-5	0.1	0	N/A	SVHC
41 Diisooctylphthalate	27554-26-3	0.1	0	N/A	
42 Diisotridecylphthalate	68515-47-9 a. 27253-26-5	0.1	0	N/A	
43 Diisoundecylphthalate	85507-79-5	0.1	0	N/A	
44 Dimethyl phthalate	131-11-3	0.1	0	N/A	
45 Dimetil tereftalato	120-61-6	0.1	0	N/A	
46 Dihexyl phthalate	84-75-3	0.1	0	N/A	SVHC
47 Di-isononil ftalato	28553-12-0	0.1	0	N/A	
48 Dipentyl phthalate	131-18-0	0.1	0	N/A	SVHC
49 Di-n-propilftalato	131-16-8	0.1	0	N/A	
50 Ditriceftalato	119-06-2	0.1	0	N/A	
51 Diundecilftalato	3648-20-2	0.1	0	N/A	
52 Di-n-octil ftalato	117-84-0	0.1	0	N/A	
53 n-Octil n-decil ftalato	119-07-3	0.1	0	N/A	
54 Dibutyl phthalate	84-74-2	0.1	0	N/A	SVHC
55 Bis(2-methoxyethyl)phthalate	117-82-8	0.1	0	N/A	SVHC
56 N-pentyl-isopentylphthalate	776297-69-9	0.1	0	N/A	SVHC
57 Benzyl butyl phthalate	85-68-7	0.1	0	N/A	SVHC
58 Bis(2-ethylhexyl)phthalate	117-81-7	0.1	0	N/A	SVHC
59 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (Di(heptyl, nonyl, undecyl) phthalate (DHNUP; dialkyl phthalate (C7-11) branched and linear)	68515-42-4	0.1	0	N/A	SVHC
60 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (C6-8-(branched)-alkyl phthalate, diisohexyl phthalate)	71888-89-6	0.1	0	N/A	SVHC
61 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (dihexylphthalate)	68515-50-4	0.1	0	N/A	SVHC
62 1,2-benzenedicarboxylic acid, dihexyl ester, branched and linear (bis-C5-alkyl-(linear and branched)phthalate)	84777-06-0	0.1	0	N/A	SVHC

**IMO (tab 13) - EU-Regulation No. 1013/2006 and 1257/2013 on ship recycling**

regulated substances		limit value	concentration of ingredient (mass%)	Designation of the material that contains the regulated substance	comments
<b>Prohibited substances (P)</b>					
63	Asbestos	0 mg/kg	0	N/A	
64	Polychlorinated biphenyls (PCBs)	0 mg/kg	0	N/A	
65	Chlorofluorocarbons (CFCs)	0 mg/kg	0	N/A	
66	Ozone-depleting substances, These controlled substances are defined in Article 1(4) of the Montreal Protocol on Substances that Deplete the Ozone Layer, 1987, listed in Annexes A,B,C or E to that Protocol in force at the time of application or interpretation of this Annex. Ozone-depleting substances that may be found on board ships include, but are not limited to:	0 mg/kg	0	N/A	
67	Other fully halogenated CFCs	0 mg/kg	0	N/A	
68	Carbon Tetrachloride	0 mg/kg	0	N/A	
69	1,1,1-Trichloroethane	0 mg/kg	0	N/A	
70	Hydrochlorofluorocarbons	0 mg/kg	0	N/A	
71	Hydrobromofluorocarbons	0 mg/kg	0	N/A	
72	Methyl bromide	0 mg/kg	0	N/A	
73	Bromochloromethane	0 mg/kg	0	N/A	
74	Anti-fouling systems containing organotin compounds as a biocide	0 mg/kg	0	N/A	
75	Tributyl Tins	0 mg/kg	0	N/A	
76	Triphenyl Tins	0 mg/kg	0	N/A	
76	other	0 mg/kg	0	N/A	
77	Perfluorooctane sulfonic acid (PFOS)	0 mg/kg	0	N/A	
<b>Substance rated declarable (D)</b>					
78	Cadmium and cadmium compounds	100 mg/kg	0	N/A	
79	Hexavalent chromium and hexavalent chromium compounds	1000 mg/kg	0	N/A	
80	Lead and lead compounds	1000 mg/kg	0	N/A	
81	Mercury and mercury compounds	1000 mg/kg	0	N/A	
82	Polybrominated biphenyl (PBBs)	1000 mg/kg	0	N/A	
83	Polybrominated diphenyl ethers (PBDEs)	1000 mg/kg	0	N/A	
84	Polychloronaphthalanes (Cl => 3)	0 mg/kg	0	N/A	
85	Radioactive substances	0 mg/kg	0	N/A	
86	Certain shortchain chlorinated paraffins		0.01	0	N/A
87	Brominated Flame Retardant (HBCDD)	0 mg/kg	0	N/A	