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Welding consumables:	Coated stick electrodes, low alloy	Date : 25.04.2002

1.	Product and co	Product and company designation OERLIKON KAYNAK ELEKTRODLARI				
1.1	Information on Trade names:	n on the product				
	ESR-30 ESC-70 ESC-70G ESC-80G ESC-60 EH-513 EM-212 EM-211 EM-2221 ESB-42 ESB-48	E7010-A1 E7010-G E8010-G E6010 E8018-B2 E8013-G E9018-B3 E7016 E7018	ESH-160R ESH-180B ESH-160B ESH-180R ESR-13M EM-202 EM-201 EM-235 EM-253	E7024 E7028 E7024 E7024 E6013 E7018-A1 E8018-G E502-15 E11018-G	EM-255 ESR-13 ESR-11 ESB-44 ESB-50 ESN-52 EM-155 EM-160 EM-160 EM-170	E6013 E6013 E7016 E7018 E7018-1 E8018-W E8018-C2 E8018-G E9018-G
1.2	Organi Manisa		ESB-40 E7016 rlikon Kaynak Elektrodları ve San. A.Ş. ganize Sanayi Bölgesi 2.Kısım ınisa / TURKEY lephone: 0 236 226 26 00			
			Fax Fm	:: ergency telephone		0 236 233 99 77 0 236 226 26 34
2.	Composition/Information on ingredients Description: Dangerous ingredients: CAS-Nr.: Designation: Content [% by weight]: Key letter of the danger symbol: R-Code:		The less The not not not	The products contain less than 1 % by weight of nickel and less that 5 % by weight of chromium. The products do not contain any dangerous substances. not applicable		
3.	Eventual dangers Designation of dangers:		sta	Welding and grinding cause smoke and dust. Irritative sub- stances such as fluorides and manganese oxides as well as fine dust may be caused (mostly iron oxide).		
4.	First Aid measures General information After inhalation: After skin contact: After eye contact: After swallowing:		Bre qua Wa Rin fiss	Breathe deeply in fresh air, consult physician in case of great quantities of smoke. Wash skin concerned thoroughly with soap. Rinse for several minutes under running water with palpebral fissure well opened and eventually consult physician. not applicable		
5.	Measures for fi	Measures for fire fighting Not applicable, as the products are neither inflammable ne explosive.				
6.	Suitable fire-extinguishing materials Measures in case of unintended release			not applicable, in case of external fire: all not applicable		
7. 7.1	Handling and s Handling Information for s	storage	The	UVV (German re		oiding accidents) (VBG
7.2	Storage Requirement for	r warehouses/containe	,	have to be respect special requiremen		ons.

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8.							
8.1	Additional information for the design of technical installations						
	In our all and a solid. Healt	. (.)			ave to be respected		
8.2	Ingredients with limits to be examined depending on the working place						
	Designation of subst Fluoride	ance	CAS-Nr. 7664-39-3	Limit	a3 (NAAK) in total dust		
			7664-39-3 7439-96-5		n³ (MAK) in total dust		
	Manganese Fine dust		7439-90-3		า³ (MAK) in total dust า³ (MAK)		
	Total dust		_	4 mg/m ³			
8.3	Personal safety equip	nment		+ mg/m	(W) u y		
0.0	Breathing, hand, eye, I		see UVV (VBG 1	5), § 27			
	Protection and hygiene		Do not eat, drink or smoke in the working room.				
9.		hysical and chemical characteristics					
	Exterior aspect		coated stick electrode				
	Safety-related data:		not applicable				
10.	Stability and reactivity						
	-		Avoid contact with acids and bases. Product stable up to				
			800 °C.				
11.	Information on toxico		see item 3.				
12.	Information on ecolo	gy					
					s of the technical instruction		
			(TA) "Air" are app	olicable. For furth	er information see item 15.		
13.	Information on dispo	sal (waste)					
	Product:						
	Recommendation:		Dusts and particles depositing in exhaust systems: Disposal				
					stomary metal scrapping of		
	Vov number for weets	dianagal	the products is po	ossible. Sto from don oloo	nina		
	Key number for waste	disposai.	100000 SOlla Was	100805 solid waste from gas cleaning 120 103 Chips and parts containing non-ferrous metals			
			150229D Exhaust and filter material with noxious contami-				
			nations				
			.,				
	Uncleaned packaging:		Disposal via recy	Disposal via recycling as not contaminated			
	Cardboard boxes:		Disposal via recycling as not contaminated				
	Plastics						
14.	Information on transp	port					
	Comments:				oduct as defined by the		
			transport instructi	ions			
15.	Instructions		nono				
15.1	Marking Key letter:		none not applicable				
	Danger designation:		not applicable				
	R-Codes:		not applicable				
S-Codes: not applicable							
15.2	National instructions						
	Information on employ		not applicable				
	Incident V:		not applicable				
	Classification accordin	g to VbF:	not applicable				
	Technical instruction "A	Air":	5 mg/m³ with a m		g/h		
	Water hazard class:		Hazards not to be	e expected			
	Other instructions:		not known				
16.		Documentation:	1 10 71				
	information	- Unfallverhütungsvor					
			aen una verwanate v	verranren (vveid	ing, Cutting and related		
processes) - DVS-Merkblatt (German Association of Welding Technique instruction Absaugung an Schweißerheitsplätzen (Exhaust systems at welding		ue instruction) 1201:					
	Absaugung an Schweißarbeitsplätzen (Exhaust systems at welding working - DVS-Faltblätter zum Arbeitsschutz beim Schweißen (DVS brochures for wo						
		safety in welding)		CONVOIDEN (DV	S. Sonaros for Working		
			ok): Unterweisuna va	on Schweißern in	n Arbeitsschutz (Instructions		
		on working safety fo					
	- Kraume, Zober: Arbeitssicherheit und Gesundheitsschutz in der Schweißtechnik						
	(Working safety and health protection in welding)						
			-	•/			