

<u>1: Identification of the product and the company</u>

Manufacturer:	Elephant Dental B.V., Verlengde Lageweg 10, 1628 PM Hoorn, The Netherlands,
	Tel.nr. +31/229-259000, www.elephant-dental.com
Trade Name:	Clasps, various types
Description:	
Product group:	Non-precious alloys
Application domain:	Surgical wire for orthodontic techniques
Shape:	Wire
Packing:	Cross-type clasps box with 10 pieces: TK 0.90mm; TK 1.00mm; J 0.80mm; J 0.90mm;
_	J 1.00 mm; J oblique 0.80mm; J oblique 0.90mm; J oblique 1.00mm; JM 1.20mm.
	Ball-end clasps box with 10 pieces: 0.60mm, 0.70mm, 0.80mm, 0.90mm, 1.00mm.
	Angular clasps box with 10 pieces: single-arm left, single-arm right
Art. no.:	6101253090, 6101253100, 6101258080, 6101258090, 6101258100, 6101259080, 6101259090,
	6101259100, 6101260000, 6101264060, 6101264070, 6101264080, 6101264090, 6101264100,
	6101295001, 6101296001.
	2: Composition/information of ingredients

Composition:	CAS-no.	Symbol(s)	R-phrase(s)	Standard
Iron (Fe)	7439-86-6	-	-	65 - 75 Massen %
Chromium (Cr)	7440-47-3	-	-	17 -19 Massen %
Nickel (Ni)	7440-02-0	Xn	R 40-43	7 - 11 Massen %
Manganese (Mn)	7439-96-5	-	-	0 - 2 Massen %
Other elements < 1% V, Si, Mo, C				

The final product is an alloy; the different components are not present as the individual element.

<u>3: Hazards identification</u>

Danger:	Finished product	Dust while processing
Inhalation:	N.a.	n.a.
Skin:	None ⁽¹⁾	n.a.
Eyes:	None	n.a.
Swallow:	None	n.a.
Carcinogenicity:	Dental alloys are not listed	l as carcinogen
Medical conditions aggravat	ed	
by exposure:	Pre-existing respiratory an	d skin disease
(1) $\mathbf{N}_{\mathbf{n}}$ $\mathbf{C}_{\mathbf{n}}$ $\mathbf{n}_{\mathbf{n}}$ $\mathbf{n}_{\mathbf{n}}$ $\mathbf{n}_{\mathbf{n}}$ $\mathbf{n}_{\mathbf{n}}$		

⁽¹⁾ <u>Note:</u> Clasps contain nickel and should not be used in case of a nickel allergy.

4: First aid measures

Inhalation:	N.a.
Skin contact:	N.a.
Eyes:	N.a.
Ingestion:	N.a.
Notes to physician:	N.a.



<u>6: A</u>	Accidental release measu	ires	
Dust n.a. Use containerized	disposal. No special precaution	ons are required.	
	7: Handling and storage		
No particular measures required if used correctly. When melting and welding: local ventilation Avoid inhalation of dusts and vapors; if dust / vapor occurs: wear personal protective equipment			
Store in a non-cor	Store in a non-corrosive surrounding.		
<u>8: Exposi</u>	ure controls / Personal <u>p</u>	protection	
Nickel (fumes and	1 dust) 1.5 mg/m^3	et	
oduct.			
Safety goggles Protective cloves and clothing			
	and clothing		
Protective gloves	-	lace. Wash face and/or hands be	efore break and
Protective gloves No eating, drinkir end of work.	-		efore break and
Protective gloves No eating, drinkir end of work.	ng or smoking at the working p ysical and chemical proj Standard		efore break and
Protective gloves No eating, drinkir end of work. <u>9: Phy</u> Unit	ng or smoking at the working p ysical and chemical prop	oerties	efore break and
Protective gloves No eating, drinkir end of work. <u>9: Phy</u> Unit	ng or smoking at the working p vsical and chemical prop Standard Solid White > 1300	oerties	efore break and
Protective gloves No eating, drinkir end of work. <u>9: Phy</u> Unit	ng or smoking at the working p v sical and chemical proj Standard Solid White	oerties	efore break and
	Dust n.a. Use containerized No particular mea Avoid inhalation Store in a non-con <u>8: Expost</u> Chromium (fumes Nickel (fumes and Iron (fumes and d oduct. Adequate ventilat	Dust n.a. Use containerized disposal. No special precaution 7: Handling and storage No particular measures required if used correctly Avoid inhalation of dusts and vapors; if dust / va Store in a non-corrosive surrounding. 8: Exposure controls / Personal p Chromium (fumes and dust) 0.5 mg/m ³ Nickel (fumes and dust) 0.5 mg/m ³ Iron (fumes and dust) 0.5 mg/m ³	Use containerized disposal. No special precautions are required. <u>7: Handling and storage</u> No particular measures required if used correctly. When melting and welding: le Avoid inhalation of dusts and vapors; if dust / vapor occurs: wear personal protector Store in a non-corrosive surrounding. <u>8: Exposure controls / Personal protection</u> Chromium (fumes and dust) 0.5 mg/m ³ Nickel (fumes and dust) 1.5 mg/m ³ Iron (fumes and dust) no limit is set oduct. Adequate ventilation Breathing protection

ORGANISATION OF SAFETY + ENVIRONMENT PRODUCT/SAFETY-SPECIFICATION PRODUCTNAME: CLASPS SPE-CLA 3/3 VERSION: 1 Rev.date:09-aug-2007

	PRODUCINAME: CLASPS	Rev.date:09-aug-2007		
	10: Stability and Reactivity			
Stability:	Good			
Conditions to avoid:	At temperatures $> 400^{\circ}$ C the alloy oxidizes, but is stable.			
Material to avoid:	Acids and oxidizing agents			
Hazardous decomposition				
products	At temperatures $> 1300^{\circ}$ C the alloy may produce hazardous fumes	5.		
Shelf life	Clasps have an unlimited shelf life.			
	11: Toxicological information			
A outo tovicity		rad correctly, however classe		
Acute toxicity:	No dangerous reactions are known to occur when handled and stored correctly; however clasps contain nickel and should not be used in case of a nickel allergy.			
Chronic effects:	Clasps contain nickel and should not be used in case of a nickel all should not be used in case of a nickel all	lergy.		
		8)		
	12: Ecological information			
D				
Persistence and degradabil	lity: Not bio-degradable. Prevent penetration of dust into soil, water c	ourse or sewage systems.		
	13: Disposal considerations			
Product:	Collect and send to accredited metal recycler.			
Uncleaned packaging:	Disposal according to local authority regulations.			
This product is not subject to	<u>14: Transport information</u> o transport regulations.			
	<u>15: Regulatory information</u>			
Labeling according to FFO				
8				
Symbol:				
Symbol: R-phrases:				
Labeling according to EEC Symbol: R-phrases: S-phrases: EU-labeling:				
Symbol: R-phrases: S-phrases:	C Directive			
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