

Safety Data Sheet

1. Name of Material/Company Trademark

Commercial name :	CLASP WIRE	<i>PRODUCTION</i>
Manufacturer/Supplier:	INTERDENT d.o.o.	INTERDENT d.o.o.
Street :	Opekarniška cesta 26	Dol 1
Country code /Postal code/City:	SI-3000 Celje	SI-3342 Gornji Grad
Telephone/Fax :	+386(0) 425-62-00, +368(0) 490 41 50	
Emergency phone :	+386(0) 425-62-40	

2. Hazards Identification

Product is not classified as hazardous according to legislation.

Human health hazards:

Carcinogenicity: IARC, NTP, and OSHA do not list Stainless Steel alloy as a carcinogen. Nickel, chromium, and cobalt metal contained in Stainless Steel alloys is classified as possibly carcinogenic by IARC. Chromium is also classified by NTP as carcinogenic. Hexavalent chromium though not present in the alloy may be formed during welding or other thermal processes.

Routes of Entry/Exposure: Stainless Steel alloys in their usual solid form and under normal conditions do not present an inhalation, ingestion, or contact health hazard. Inhalation may occur if dust or fumes are generated. Skin absorption is not likely to occur but irritation may occur when in contact with the skin. Ingestion is not likely to occur. Target Organs: Lungs, nasal cavity, kidney, liver, blood, central nervous system, eyes and skin.

3. Ingredient Content/Ingredient Information

Chemical Name	CAS Nr. EC-Number INDEX number	%	Classification according EC 1272/2008		Classification according 67/548/EEC
Nickel	7440-02-0 231-111-4 028-002-00-7	8	Hazardous class/hazardous category	Hazardous phrases	Xn: R40-43 S22-36
			Carc. 2 Skin Sens 1	H351 H317	

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Contents [%]									
Fe	C	Si	Mn	P	S	N	Cr	Ni	Mo
72	0.1	1.0	1.1	0.03	0.002	0.01	17.4	8	0.3

4. First Aid Measures

<i>General instructions:</i>	No special measures required.
<i>After inhalation:</i>	If dust or other particles are generated during processing, it is necessary to provide adequate ventilation and respiration protection. If dust/particles have been aspirated seek for medical attention.
<i>After skin contact:</i>	Instantly wash with water and soap and rinse thoroughly.
<i>After eye contact:</i>	Rinse open lid for several minutes under running water.
<i>After swallowing:</i>	Wash off mouth with water at first and then drink cca. 100mL of water. In case of persistent symptoms consult doctor.

5. Fire Prevention Regulations

<i>Suitable extinguishing agents:</i>	CO ₂ , foam, powder, water.
<i>Unsuitable extinguishing agents:</i>	n.a.
<i>Products of thermal decomposition:</i>	metal oxides.
<i>Protective equipment:</i>	Put on breathing apparatuses.
<i>Additional information:</i>	Collect contaminated fire fighting water separately. It must not enter the drains.

6. Accidental Substance Release Regulations

<i>Personal protection:</i>	Avoid causing and breathing dust.
<i>Measures for environmental protection:</i>	Do not allow product to enter sewage system or water.

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<i>Measures for cleaning/collecting:</i>	Dispose contaminated material according local law.
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7. Handling and storage

Handling: Prevent formation of dust. If dust is formed, avoid breathing it.
Avoid skin and eye contact.

Protection against explosion and fire: No special measures required.

Storage: n.a.

8. Exposure controls/personal protection

Occupational exposure limit

Chemical name: Nickel

OEL (long term value): 0,5 mg/m³

Personal protective equipment

General protection and hygienic measures: Avoid close or long term contact with the skin.

Breathing equipment: Dust proof mask – particle filter mask filter P2.

Protection of hands: Protective gloves.

Eye protection: Not required.

9. Physical and chemical properties

Form: solid matter
Colour: silver-grey, metallic
Odour: odourless

Boiling point: n.a.

Melting point: n.a.

Flash point: n.a.

Explosion limits: n.a.

Density at 20°C: > 3g/cm³

Water solubility: insoluble

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10. Stability and reactivity

Thermal decomposition: None if used according to the specification.
Material to be avoided: None.
Dangerous reactions: No dangerous reaction known.
Dangerous products of decomposition: Metal oxides.

11. Toxicology information

Eye Effects: No known human testing.
Skin Effects: May cause contact dermatitis in sensitized individuals (Ni)
Acute Inhalation Effects: Rat, oral, LDLo: 5 mg/kg (Ni);
Rat, unreported, LD50: 27500 µg/kg (Cr)
Rat, oral, LD50: 6171 mg/kg (Co)
Chronic Effects: Rat, inhalation, TCLo: 100 µg/m³ /24 hrs/ 17 weeks (Ni)
Carcinogenicity: *Human Limited Evidence*, IARC Group 2B (Ni);
Known to be carcinogenic by NTP (as Cr).
Teratogenicity: Rat, oral, TDLo: 158 mg/kg (Ni)
Mutagenicity: Hamster, morphological transformation: 400 mg/L (Ni)
Tumorigenic: Rat, subcutaneous, TDLo: 3000 mg/kg/6 weeks (Ni)
Rat, intravenous, TDLo 2160 µg/kg/6 weeks (Cr)

The steels contain nickel (classified as a dangerous substance), chromium and manganese (with limit values, which are to be monitored.) In their normal solid state and in normal industrial use the steels are neither inhaled nor in permanent or long-term contact with the skin.

After skin contact: No irritant effects.
After eye contact: No irritant effects.
Possible sensitization by skin contact.

12. Ecology information

Ecotoxicity: There is little tendency for bioaccumulation along food chain. Alloy may persist in the environment for long periods based upon the corrosive resistance, insolubility in water, and nonbiodegradable properties.
Environmental Degradation: In fresh and salt water, Stainless Steel Alloys will eventually form metal oxides and precipitate in sediments.

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13. Disposal instructions

Dispose according to the local law.

14. Transport Information

Not a dangerous product within the meaning of the transport regulations.

15. Regulations

EU Label Information: Classification and labeling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments (2001/60/EC and 2006/8/EC) and Regulation 1272/2008

EU Hazard Symbol and Indication of Danger According to EC Commission Directive 67/548/EEC and Regulation EC 1272/2008 this product is not classified.

16. Other information

Information listed herein are based on the present studies and are not a warrant for product's characteristics. Product user is advised to keep to given regulations and requirements at his/her own risk.