

Safety Data Sheet

Section 1: Identification of the material and the Supplier

Product identifier	Colado NC
Product use	Dental alloy
Distributor information	
Company identification	Ivoclar Vivadent (NZ) Ltd
Address	12 Omega Street, Rosedale, Auckland, New Zealand
Telephone Number	0508 486 252
Emergencies within New Zealand	0800 764 766 (National Poison Control Centre)

Section 2: Hazards Identification

Product is classified as hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

NZ Group Standard & EPA Approval Code Dental Products (Toxic [6.7])
HSR002560



Chronic



Irritant



Ecotoxic

Hazard Classification	Hazard Code	Hazard Statement
6.3B	H316	Causes mild skin irritation
6.5A	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
6.5B	H317	May cause an allergic skin reaction
6.7B	H351	Suspected of causing cancer
6.8B	H361	Suspected of damaging fertility or the unborn child
6.9B	H373	May cause damage to organs through prolonged or repeated exposure
9.1A	H400/H410m	Very toxic to aquatic life/Very toxic to aquatic life with long lasting effects
9.2C	H423	Harmful to the soil environment
Prevention Code	Prevention Statement	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P273	Avoid release to the environment.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P281	Use personal protective equipment as required.	
P285	In case of inadequate ventilation wear respiratory protection.	
Response Code	Response Statement	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.	
P308 + P313	IF exposed or concerned: Get medical advice/attention.	
P314	Get medical advice/attention if you feel unwell.	

P321	Specific treatment see Section 4. First Aid Measures.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
Storage Code	Storage Statement
P405	Store locked up.
Disposal Code	Disposal Statement
P501	Dispose of according to local regulations.

Section 3: Composition/Information on Ingredients

Chemical characterization	Mixtures.
Description:	
Alloy made of	Ni 65.6% (CAS: 7440-02-0), Cr 20.1 (CAS: 7440-47-3), W 7.1 (CAS: 7440-33-7), Si 3.3% (CAS: 7440-21-3), Al 2.4% (CAS: 7429-90-5), Mo 1.3 (CAS: 7439-98-7), La <1.0% (CAS: 7439-91-0)
Dangerous components	This alloy contains nickel (CAS: 7440-02-0).

Section 4: First Aid Measures

Description of first aid measures:	
General information	No special measures required.
After inhalation	Supply fresh air; consult doctor in case of complaints.
After skin contact	After contact with the molten product, cool rapidly with cold water.
After eye contact	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing	Seek immediate medical advice.
Information for doctor:	
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available.

Section 5: Fire Fighting Measures

Extinguishing media:	
Suitable extinguishing agents	The product is not flammable. Use fire extinguishing methods suitable to surrounding conditions.
Special hazards arising from the substance or mixture	No further relevant information available.
Advice for firefighters:	
Protective equipment	Do not inhale explosion gases or combustion gases.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Not required.
Environmental precautions	No special measures required.
Methods and material for containment and cleaning up	Pick up mechanically.
Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Section 7: Handling and Storage

Handling:

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles No special requirements.

Information about storage in one common storage facility Not required.

Further information about storage conditions None.

Specific end use(s) No further relevant information available.

Section 8: Exposure Controls/Personal Protection

Additional information about design of technical facilities No further data; see item 7.

Control parameters:

Ingredients with limit values that require monitoring at the workplace 7440-02-0 nickel
WEL Long-term value: 0.5 mg/m³
as Ni

Additional information The lists valid during the making were used as basis.

Exposure controls:

Personal protective equipment:

General protective and hygienic measures Usual hygienic measures for dental practice.

Respiratory protection Use respiratory protective device against the effects of fumes/dust/aerosol.

Protection of hands The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection Safety glasses.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties:

General Information:

Appearance:

Form Solid

Colour White

Odour	Odourless
Odour threshold	Not determined
pH-value	Not applicable
Change in condition:	
Melting point/Melting range	1230–1325 °C
Boiling point/Boiling range	Undetermined
Flash point	Not applicable
Flammability (solid, gaseous)	Not determined
Self-igniting	Product is not self-igniting
Danger of explosion	Product does not present an explosion hazard
Explosion limits:	
Lower	Not determined
Upper	Not determined
Vapour pressure	Not applicable
Density at 20 °C	8.2 g/cm ³
Relative density	Not determined
Vapour density	Not applicable
Evaporation rate	Not applicable
Solubility in/Miscibility with water	Insoluble
Segregation coefficient (n-octanol/water)	Not determined
Viscosity:	
Dynamic	Not applicable
Kinematic	Not applicable
Other information	No further relevant information available

Section 10: Stability and Reactivity

Reactivity	No further relevant information available.
Chemical stability	Stable under normal handling and storage conditions.
Thermal decomposition/ conditions to be avoided	No decomposition if used according to specifications.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.
Hazardous decomposition products	None under normal conditions of storage and use.

Section 11: Toxicological Information

Information on toxicological effects:	
Acute toxicity:	
Primary irritant effect:	
On the skin	No irritant effect.
On the eye	No irritating effect.
Sensitization	Sensitization possible through skin contact.

Other information (about experimental toxicology)	Non-cytotoxic.
Additional toxicological information:	Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

Section 12: Ecological Information

Toxicity:	
Aquatic toxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Behaviour in environmental systems:	
Bio accumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information:	
General notes	Generally not hazardous for water.
Results of PBT and vPvB assessment:	
PBT	Not applicable.
vPvB	Not applicable.
Other adverse effects	No further relevant information available.

Section 13: Disposal Considerations

Waste treatment methods:	
Recommendation	Smaller quantities can be disposed of with household waste.
Uncleaned packaging:	
Recommendation	Disposal must be made according to official regulations.

Section 14: Transport Information

This product is not a Dangerous Good for Road and Rail transport in New Zealand according to NZS 5433 Safe Transport of Dangerous Goods.

Section 15: Regulatory Information

NZ Group Standard & EPA Approval Code	Dental Products (Toxic [6.7]) HSR002560
HSNO Controls:	
Trigger quantities for this substance:	
	Trigger Quantity
Approved Handler	Any
Location Certificate	Not applicable
Tracking Trigger Quantities	Any
Signage Trigger Quantities	100 L (liquid) / kg (solid)
Emergency Response Plan Trigger Quantities	100 L (liquid) / kg (solid)

Section 16: Other Information

This document has been compiled by Ivoclar Vivadent Ltd on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to Ivoclar Vivadent (NZ) Ltd by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While Ivoclar Vivadent (NZ) Ltd has taken all care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Ivoclar Vivadent (NZ) Ltd accepts no liability or any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS. The information herein is given in good faith, but no warranty, express or implied is made.

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