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Material Safety Data Sheet acc. to ISO 11014

Printing date 06/23/2015

Version number 3

Reviewed on 05/07/2015

1 Identification

- · Product identifier
- · Trade name: Colado NC

• *Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.*

- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier: Ivoclar Vivadent Inc. 175 Pineview Drive, Amherst, N.Y. 14228 USA Tel. +1 800 533 6825 Fax +1 716 691 2285

Ivoclar Vivadent Inc. 1-6600 Dixie Road Mississauga, Ontario L5T 2Y2 Canada Phone: +1 905 670 8499 Fax: +1 905 670 3102

 Information department: Quality Assurance / Regulatory Affairs
 Emergency telephone number: 24 Hour Emergency Assistance: Emergency-Call USA - Infotrac: 1-800-535-5053 Emergency-Call Canada - Canutec: 1-613-996-6666

General SDS Assistance: US: 1-800-533-6825 Canada: 1-800-263-8182

2 Hazard(s) identification

Classification of the substance or mixture
Skin Sens. 1 H317 May cause an allergic skin reaction.
Carc. 2 H351 Suspected of causing cancer.
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: nickel
- Hazard statements

May cause an allergic skin reaction.

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Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Specific treatment (see on this label). Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Get medical advice/attention if you feel unwell. If on skin: Wash with plenty of water. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Hazard description: · WHMIS-symbols: D2B - Toxic material causing other toxic effects · Information pertaining to particular dangers for man and environment: Alloys do not require a label, providing they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market. · Classification system: · NFPA ratings (scale 0 - 4) Health = 0Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH • Health = 00 FIRE Fire = 0**REACTIVITY O** *Reactivity* = 0· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients · Chemical characterization: Mixtures · Description: Dental alloy

• Dangerou:	components:	
7440-02-0	nickel	40-70%
7440-47-3	chromium	10-<25%
7440-33-7	tungsten	5-<10%
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7440-21-3	silicon	3-5%	
7429-90-5	aluminium powder (pyrophoric)	1-<3%	
7439-98-7	molybdenum	1-1.5%	

4 First-aid measures

- · Description of first aid measures
- After inhalation: Grinding dust: 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: Grinding dust: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Mechanical effects only.

- · After swallowing: Seek medical treatment.
- 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.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: The product is not flammable.
- 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.

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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Extractors are required on all machines used for thermal processing or splinter removal processes. Only adequately trained personnel should handle this product. For use in dentistry only.

• Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

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

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Con	ntrol parameters
· Co	mponents with limit values that require monitoring at the workplace:
744	10-02-0 nickel
EL	Long-term value: 0.05 mg/m ³ ACGIH A1, IARC 2B
EV	Long-term value: 1* 0.2** 0.1*** mg/m ³ inh.;*metal;**insol. compds.;***soluble compds.
744	10-47-3 chromium
EL	Long-term value: 0.5 mg/m ³ as metal
EV	Long-term value: 0.05 mg/m ³
744	10-33-7 tungsten
EL	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as W
EV	Short-term value: 10* 3** mg/m ³ Long-term value: 5* 1** mg/m ³ (as tungsten; compds.:*water-insol.;**water-sol.
744	10-21-3 silicon
EL	Long-term value: 10* 3** mg/m ³ *total dust;**respirable fraction
EV	Long-term value: 10 mg/m ³ total dust
742	9-90-5 aluminium powder (pyrophoric)
EL	Long-term value: 1.0 mg/m³ respirable, as Al
EV	Long-term value: 5 mg/m ³ aluminium-containing (as aluminium)
743	19-98-7 molybdenum
EL	Long-term value: 3* 10** mg/m ³ as Mo; *respirable **inhalable
EV	Long-term value: 10* 3** 0.5*** mg/m ³ metal,insol.compd.:*inh;**resp;sol.compd.:***resp
·Ade	ditional information: The lists that were valid during the creation were used as basis.
· Per · Gen · Bre · Pro Pro Afto · Ma Me	posure controls resonal protective equipment: meral protective and hygienic measures: Usual hygienic measures for dental practice. reathing equipment: Use respiratory protective device against the effects of fumes/dust/aerosol. retection of hands: potective gloves should always be worn during mechanical and thermal processing. er use of gloves apply skin-cleaning agents and skin cosmetics. reterial of gloves chanical processing: uther gloves

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Strong gloves Thermal processing:

Heat protection gloves

· 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:

Always wear safety goggles during mechanical processing (grinding, sawing /cutting, drilling, milling).

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Solid	
Color:	White	
Odor:	Odorless	
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.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density at 20 °C:	8.4 g/cm ³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Solids content:	100 %	
Other information	No further relevant information available.	

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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.

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.
- · Additional toxicological information:
- Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.
- · Carcinogenic categories

· IARC (Inte	ernational Agency for Research on Cancer)	
7440-02-0	nickel	28
7440-47-3	chromium	3
· NTP (Nati	onal Toxicology Program)	
7440-02-0	nickel	R
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of the	e ingredients is listed.	

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative 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.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority. (Contd. on page 7)

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· Uncleaned packagings:

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• **Recommendation:** Disposal must be made according to official regulations.

UN-Number	
DOT, TDG, ADN, IMDG, IATA	Void
UN proper shipping name	
DOT, TDG, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT, TDG, ADN, IMDG, IATA	
Class	Void
Packing group	
DOT, TDG, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex 1	T of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· Section 355 (extremely hazardous substances):
None of the ingredients is listed.
· Section 313 (Specific toxic chemical listings):
7440-02-0 nickel
7440-47-3 chromium
7429-90-5 aluminium powder (pyrophoric)
· TSCA (Toxic Substances Control Act):
All ingredients are listed.
· Proposition 65
Proposition 65 Chemicals known to cause cancer:
· Chemicals known to cause cancer:
• Chemicals known to cause cancer: 7440-02-0 nickel
• Chemicals known to cause cancer: 7440-02-0 nickel • Chemicals known to cause reproductive toxicity for females:

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A4

A3

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· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

7440-47-3 chromium

· TLV (Threshold Limit Value established by ACGIH)

7440-02-0 nickel

7440-47-3 chromium 7429-90-5 aluminium powder (pyrophoric)

7439-98-7 molybdenum

· NIOSH-Ca (National Institute for Occupational Safety and Health)

7440-02-0 nickel

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).



GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labeling: nickel · Hazard statements May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. · Precautionary statements Obtain special instructions before use. Wear protective gloves. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Specific treatment (see on this label). Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Get medical advice/attention if you feel unwell. If on skin: Wash with plenty of water. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · National regulations:

• Other regulations, limitations and prohibitive regulations The product is a medical device according to the Directive 93/42/EEC. This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.

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• *Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Date of preparation / last revision 06/23/2015 / 2 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Carc. 2: Carcinogenicity, Hazard Category 2 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1 • * Data compared to the previous version altered.