# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 071679885

# The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071670240 071678002 071678010 071678028 071678036 071678044 071678051 071678069 071678077 071678085 071679638 071679653 071679661 071679679 071679703 071679711 071679729 071679869 071679877 071679976 071679984 071679992 079883200 079883900 079884600 079885300 079885400 079885500

# ivoclar vivadeni:

#### Safety Data Sheet acc. to OSHA HCS

Printing date 02/21/2014

Version number 3

Reviewed on 02/21/2014

1 Identification

· Product identifier

Trade name: Valiant, Valiant Snap-Set, Valiant Ph.D., Valiant Ph.D. XT, Valiant Ph.D. EXT

 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 Application of the substance / the mixture Amalgam

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 MSDS Assistance: US: 1-800-533-6825 Canada: 1-800-263-8182

#### 2 Hazard(s) identification

· Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC
 Very toxic
 Very toxic

Very toxic by inhalation.

Toxic

May cause harm to the unborn child. Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Dangerous for the environment

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

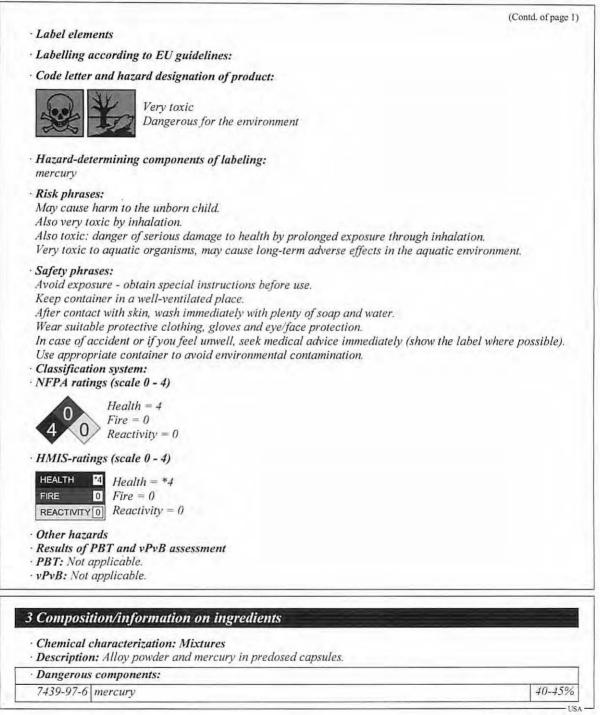
(Contd. on page 2)

-USA

Printing date 02/21/2014

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Trade name: Valiant, Valiant Snap-Set, Valiant Ph.D., Valiant Ph.D. XT, Valiant Ph.D. EXT



(Contd. on page 3)

Printing date 02/21/2014

#### Version number 3

Reviewed on 02/21/2014

Trade name: Valiant, Valiant Snap-Set, Valiant Ph.D., Valiant Ph.D. XT, Valiant Ph.D. EXT

(Contd. of page 2)

#### 4 First-aid measures · Description of first aid measures · General information: Immediately remove any clothing soiled by the product. · After inhalation: Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Immediately wash with water and soap and rinse thoroughly. After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. · Most important symptoms and effects, both acute and delayed No further relevant information available. · Indication of any immediate medical attention and special treatment needed Antidote: DMPS 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- The product is not flammable.
- Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture In case of a fire very toxic mercury fumes will generate. Fumes are heavier than air.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information Cool endangered receptacles with water spray.

#### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions:
- Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.
- · Methods and material for containment and cleaning up:
- Spillages of mercury should be removed immediately, including from places which are difficult to access. Use a plastic syringe to draw it up. Smaller quantities can be covered by sulphur powder and removed. Avoid inhalation of vapour.
- Ensure adequate ventilation.
- Dispose contaminated material as waste according to item 13.
- · 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.

(Contd. on page 4)

USA

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Trade name: Valiant, Valiant Snap-Set, Valiant Ph.D., Valiant Ph.D. XT, Valiant Ph.D. EXT

(Contd. of page 3)

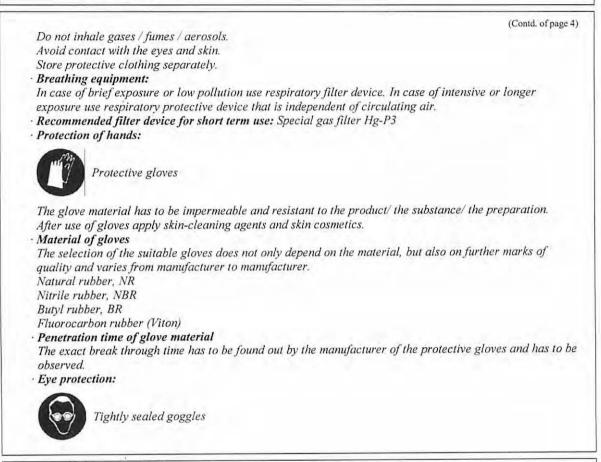
#### 7 Handling and storage · Precautions for safe handling Only adequately trained personnel should handle this product. Ensure good ventilation/exhaustion at the workplace. For use in dentistry only. · Information about protection against explosions and fires: Keep respiratory protective device available. · Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep receptacle tightly sealed. Store receptacle in a well ventilated area. · 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. · Control parameters · Components with limit values that require monitoring at the workplace: 7439-97-6 mercury PEL Long-term value: 0.1 mg/m3 as Hg; see OSHA standard interpretation memo REL Long-term value: 0.05\* mg/m3 Ceiling limit value: 0.1 mg/m3 as Hg; \*Vapor; Skin TLV Long-term value: 0.025 mg/m<sup>3</sup> as Hg; Skin; BEI Ingredients with biological limit values: 7439-97-6 mercury BEI 35 µg/g creatinine Medium: urine Time: prior to shift Parameter: Total inorganic mercury (background 15 µg/L Medium: blood Time: end of shift at end of workweek Parameter: Total inorganic mercury (background) · Additional information: The lists that were valid during the creation were used as basis. · Exposure controls · Personal protective equipment: General protective and hygienic measures: Usual hygienic measures for dental practice. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. (Contd. on page 5)

Printing date 02/21/2014

Version number 3

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Information on basic physical and	chemical properties
General Information	The physical and chemical properties in this section refer to the
	mercury.
Appearance:	
Form:	Fluid
Color:	Silver grey
Odor:	Odorless
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	and the second
Melting point/Melting range:	-38 °C (-36 °F)
Boiling point/Boiling range:	356 °C (673 °F)
Flash point:	Not applicable.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.

Version number 3

Reviewed on 02/21/2014

# Trade name: Valiant, Valiant Snap-Set, Valiant Ph.D., Valiant Ph.D. XT, Valiant Ph.D. EXT

		(Contd. of page
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	13.54 g/cm <sup>3</sup> (112.991 lbs/gal)	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/	water): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Other information	No further relevant information available.	

#### 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.
- $\cdot$  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.
- · Additional information: Avoid contact with ammoniac, amines, metals and strong acids.

#### 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:
- Mercury may have a sensitizing effect on the skin and lungs, or act as a nephrotoxin or neurotoxin. Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Very toxic

Alloy powder and mercury are predosed in closed capsules, therefore the danger of exposition to mercury vapours are low.

Avoid exposure of mercury to pregnant person.

(Contd. on page 7)

– USA

Printing date 02/21/2014

#### Version number 3

Reviewed on 02/21/2014

Trade name: Valiant, Valiant Snap-Set, Valiant Ph.D., Valiant Ph.D. XT, Valiant Ph.D. EXT

(Contd. of page 6)

3

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7439-97-6 mercury

· NTP (National Toxicology Program)

None of the ingredients is listed.

#### 12 Ecological information

#### · Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Very toxic for fish
- · Additional ecological information:

· General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

- Very toxic for aquatic organisms
- · 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:
- Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT	UN2809	
· ADR, IMDG, IATA	2809	
· UN proper shipping name		
· IMDG, IATA	MERCURY	
· Transport hazard class(es)		
· DOT, IMDG, IATA		
· Class	8 Corrosive substances.	

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Version number 3

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Trade name: Valiant, Valiant Snap-Set, Valiant Ph.D., Valiant Ph.D. XT, Valiant Ph.D. EXT

	(Contd. of pag
Label	8
ADR	
· Class	8 (C9) Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	111
Environmental hazards:	
Marine pollutant:	Yes
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
· Segregation groups	Heavy metals and their salts (including their organometallic compounds)

#### 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):

7439-97-6 mercury

· TSCA (Toxic Substances Control Act):

7439-97-6 mercury

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

7439-97-6 mercury

· Carcinogenic categories

· EPA (Environmental Protection Agency)

7439-97-6 mercury

· TLV (Threshold Limit Value established by ACGIH)

7439-97-6 mercury

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

None of the ingredients is listed.

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	national Safety & Health Administration)
None of the ingred	lients is listed.
Product related h	azard information:
Hazard symbols:	
SE O	Very toxic
See To	Dangerous for the environment
and the	
Hazard-determini	ing components of labeling:
mercury	
Risk phrases:	the surface shift
Also very toxic by	o the unborn child. inhalation
	of serious damage to health by prolonged exposure through inhalation.
	tic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases:	
	obtain special instructions before use.
the strategy with the strategy with the strategy with the	a well-ventilated place. skin, wash immediately with plenty of soap and water.
	tective clothing, gloves and eye/face protection.
In case of acciden	t or if you feel unwell, seek medical advice immediately (show the label where possible).
	ontainer to avoid environmental contamination.
National regulation	ons:
	, limitations and prohibitive regulations
	assified as a medical device under US and Canadian regulations and has been reviewed i
	Drug Administration and Health Canada. Issessment: 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 02/21/2014 / 2