

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: Heat-Curing Acrylic powder

Manufacturer: Vertex-Dental B.V.

SDS Expiry: Current SDS supplied by Manufacturer as at June 2021

Supplier Details: Henry Schein New Zealand
23 William Pickering Drive, Albany
PO Box 101 140, North Shore, Auckland 0745
Ph. 0800 808 855
www.henryschein.co.nz

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –
0800POISON/0800764766 (24 Hours)
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: Non-Hazardous

HSNO Group Standard: Non-Hazardous

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared - June 2021

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: Vertex Heat-Curing Acrylic powder

Address/Phone no.: Vertex-Dental B.V.
P.O.Box 10
3700 AA Zeist
The Netherlands
info@vertex-dental.com

Emergency Phone No.: +31 30 6976749 (only available during office hours)

Local Contact Details:

Local Emergency Phone no.:

Intended Use: Polymer based on Methyl methacrylate for manufacturing of dental prosthesis, expanding or repairing dental prosthesis.

Synonyms: Vertex Regular, Vertex Rapid Simplified, Vertex Implacryl, DB20, Hot Cure material C, Hot Cure 20 minutes C, Hot Cure material D, Hot Cure 20 minutes D, BasiQ 20, Premium Super-20 Denture, Platinum Hi, High Impact D, J-Cryl+.

2. HAZARDS IDENTIFICATION

EC Classification: Not Classified as Dangerous for Supply/Use

Combustible but not readily ignited.
May form dust clouds in air.
Low toxicity under normal conditions of handling and use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Polymer based on Methyl methacrylate.

HAZARDOUS INGREDIENT(S)	% w/w	CAS No.	EC No.	EC Classification
Dibenzoyl peroxide	< 1	94-36-0	202-327-6	E, X _i ; R2 R36 R43

For full text of R phrases see section 15.

4. FIRST AID MEASURES

Inhalation: Remove patient from exposure. Obtain medical attention if ill effects occur.

Skin Contact: Wash skin with water. If symptoms (irritation or blistering) occur obtain medical attention.

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Eye Contact: Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. Obtain medical attention.

Ingestion: Do not induce vomiting. Wash out mouth with water. Obtain medical attention if ill effects occur.

Further Medical Treatment

Symptomatic treatment and supportive therapy as indicated.

5. FIRE-FIGHTING MEASURES

Combustible but not readily ignited. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapours. This product can form flammable dust clouds at elevated temperatures.

Incompatible materials:	None known
Suitable Extinguishing media:	Foam and CO ₂ .
Unsuitable Extinguishing media:	Direct jet of water.
Fire-Fighting Protective Equipment:	A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Caution – spillages may be slippery. Collect in containers for disposal using approved dust respirator.

7. HANDLING AND STORAGE

7.1. HANDLING

Avoid contact with eyes. Avoid prolonged skin contact. Work in a well ventilated area. Avoid dust formation.

Process Hazards

Vertex Heat-Curing Acrylic powder are usually processed in conjunction with reactive monomers and this may require the use of a higher level PPE than that necessary for the polymer itself. See also Sections 8 and 11.

7.2. STORAGE

Store in a clean, cool and dry area away from heat sources. Natural ventilation is adequate.

Storage temperature: Preferably not exceeding 25°C

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. EXPOSURE LIMIT VALUES**

Occupational Exposure limits

SUBSTANCE	CAS No.	TWA 8 hr (mg/m ³)
Dibenzoyl peroxide	94-36-0	5
Dust (total inhalable dust)		10
(respirable dust)		5

8.2. EXPOSURE CONTROLS

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Consideration should be given to the work procedures

involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

The following information is given as general guidance/

Respirators: A suitable mask or dust respirator with filter type P-S pr FFP-S (EN143 and EN149) may be appropriate.

Eye Protection: Safety glasses

Gloves: Not normally required, however use of gloves is recommended to comply with good occupational hygiene practice. Wear suitable gloves, Polyvinyl alcohol or latex gloves. **WARNING:** PVA is soluble in water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder, clear or pink

Odour: Faint ester like

pH: Not applicable

Boiling point: Not applicable

Melting point: > 240°C decomposition

Flash point: Not applicable

Flammable limits : Not applicable

Auto ignition temperature: > 465°C

Explosive properties: Weakly to moderate exposable

Oxidising properties: Not applicable

Vapour pressure: Not applicable

Density: 1.1 – 1.18 g/cm³ at 20°C

Water solubility: Negligible

Solubility: Not available

10. STABILITY AND REACTIVITY**10.1. CONDITIONS TO AVOID**

Product name: Vertex Heat-Curing Acrylic powder

Hazardous reactions: None known

10.2. MATERIALS TO AVOID

Hazardous reactions: None known

10.3. HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition product(s): Methyl methacrylate, carbon monoxide, carbon dioxide

According to literature:

Methyl methacrylate is in essential non-toxic, when absorbed into the body by any route. However for some few individuals it is a powerful skin sensitizer. Apart from this skin allergy, human cases of ill health caused by the product are of a low probability.

11. TOXICOLOGICAL INFORMATION

Long-term inhalation tests on rats and hamsters with exposure to concentrations from 100 to 400 ppm, did not show any chronic toxic effect. However concentrations on excess of 100 ppm volume may be irritating for some people. Handling of the product requires adequate ventilation to prevent accumulation of vapour in work areas.

Inhalation:

Unlikely to be hazardous by inhalation.

Skin contact:

Unlikely to cause skin irritation.

Eye contact:

Dust may cause irritation

Ingestion:

Low oral toxicity

Benzoyl peroxide

Acute oral rat: LD₅₀ = > 5000 mg/kg
Acute inhalation rat: LD₅₀ = 24.3 mg/l / 4 hours
Acute skin: Not irritating
Acute eye: Irritating

On thermal treatment irritating acrylic monomers, like methyl methacrylate, can be formed.

Methyl methacrylate

Acute oral rat: LD₅₀ = 7872 mg/kg
Acute skin rabbit: LD₅₀ = 9400 mg/kg
Acute inhalation rat: LD₅₀ = 7093 ppm / 4 hours
Human patch test: Approximately 1/3 of subjects developed mild redness at site of application. 20% showed sensitivity 10 days later.

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12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil.

Persistence and Degradation

The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

Toxicity

The product is predicted to have low toxicity to aquatic organisms.

Effect on Effluent Treatment

The product is essentially insoluble in water and can therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant.

13. DISPOSAL CONSIDERATIONS

Vertex Heat-Curing Acrylic powder is considered to be non-hazardous. Incineration may be used. May be disposed of by landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

15. REGULATORY INFORMATION

EC Classification: Not classified as Dangerous for Supply/Use

Hazard Symbol: E: Oxidising
Xi: Irritating

Risk Phrases: R2: Risk of explosion by shock, friction, fire or other sources of ignition.
R36: Irritating to eyes.
R43: May cause sensitisation by skin contact.

16. OTHER INFORMATION

This Safety Datasheet was prepared in accordance with Directive (EG) 1907/2006.

Other Information

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material

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designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

The TWA-values mentioned in this datasheet are based on the invalid MAC-values in The Netherlands. Other countries may apply other MAC-values.

Glossary

TWA: Time Weighted Average

Places marked by || have been amended form the last version.

This is the end of MSDS ID: HC-P-03-UK.