

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

Product name: Vertex™ ThermoSens Rigid

Address/Phone no.: Vertex-Dental B.V.

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

Local Contact Details:

Local Emergency Phone no.:

Intended Use: Thermoplastic process able moulding for professional dental work.

2. HAZARDS IDENTIFICATION

During mechanical stress of the material, dust can be created through friction. Risk of skin burns caused by hot melt.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Polyamide, microcrystalline

Other information The base materials of the polymer are recorded in the EINECS-

database.

4. FIRST AID MEASURES

Inhalation: When visible irritation occurs during thermal processing: provide fresh air, possible

seek medical attention.

Skin contact: The molten material needs to be cooled with plenty of water for a long period of time.

Do not remove the molten material. In case of burns by molten product, medical

treatment is necessary.

Eye contact: Wash with plenty of water.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Specific hazards during

fire fighting:

Water spray, Foam, CO2, Dry powder

May be released in case of fire: Carbon mono oxide, nitric

oxide, decomposed organic chemicals.



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Under certain fire condition, trace of other toxic products

may occur.

Specific protection for fire fighters: Wear/ Keep stand by respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Environmental precautions

Cleaning methods

In case of dust release: wear dust mask.

Product may not be released in the environment.

Sweep up or pick up with vacuum cleaner spilled material

and dispose in a suitable drum. Prevent the formation of dust.

7. HANDLING AND STORAGE

Handling Prevent formation of dust.

ensure adequate ventilation and dust collection at

machinery.

During thermal processing, extraction of vapours or

adequate ventilation is necessary.

General rules of fire prevention

and explosion

Normal preventive fire protection measures. In case of dust being formed: take precautionary

measures against static discharges, keep away from

source of ignition.

Storage No special precautions required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

CASnr.

Control parameters 5 mg/m3

5 mg/m³ Respiratory TWA (Time Weight Average)

Control parameters

Exposure

Exposure

10 mg/m³

inhalation

TWA (Time Weight Average)

Technical measures In case of thermal processing, provide for extraction of

the vapours or adequate ventilation.

In case of dust being formed, provide for adequate

extraction.

Personal protective equipment

Respiratory protection The wearing of a dust mask is sufficient in the event of

dust occurring, e.g. feeding or cleaning operations.

Do not breath the vapours of hot material.

In case vapours are getting in the breathing air, during thermal processing, respiratory equipment with filters against organic vapours (e.g. A2) or a self-containing

breathing system is required.



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Hand protection The wearing of protective gloves is not required of the

granulate in question is handled at room temperature. Any areas of the skin covered with dust must be washed immediately with soap and water as the powder draws

out natural moisture from the skin. Use barrier cream regularly.

Protective heat-insulating gloves are to be used during

thermal processing.

Eye protection Recommended, e.g. Safety glasses

Hygiene measures Smoking, eating and drinking should be prohibited in the

application area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form Granules

Colour Depending on the colour number

Odour Odourless

Safety data

PH Not applicable

Melting point/range 258°C

Boiling point/range Not applicable
Flash point Not applicable
Ignition temperature Not determined

Explosion limits Granules doesn't form explosive mixtures with air.

Dusts can form explosive mixture with air.

Vapour pressure Not applicable

Density app. 1,02 g/cm³ @ 20°C

Bulk specific gravity app. 620 kg/m³
Water solubility Almost insoluble

Further information

Other information The range of values given complies with the variation of

the product group.

10. STABILITY AND REACTIVITY

Thermal decomposition > 300°C

Hazardous reactions No dangerous reactions known.

11. TOXICOLOGICAL INFORMATION

No harmful effects have become known as yet.

12. ECOLOGICAL INFORMATION

Data for disposal (persistence and degradability)

Behaviour of the product in environmental compartments



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Eco toxicity effects

Further information regarding environmental aspects

Further information

The product is a water-insoluble, solid polymer which, under environmental conditions, is not expected to have a detrimental effect on plants, animals or microorganisms.

13. DISPOSAL CONSIDERATIONS

With respect to local regulations, e.g. disposal to suitable waste incineration plant.

14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

15. REGULATORY INFORMATION

Labelling

National registration

Not subject to labelling according Directive 67/548/EEG..

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

Glossary

TWA: Time Weighted Average

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

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