

1. Identification of the substance/preparation and company:

1.1: Trade name: DinaBase 7, (registered trademark) - Substance key: none

1.2: Relevant use of the substance/preparation:

Sector: Dental - Type of use: thermoplastic denture adhesive

1.3: Identification of the manufacturer and supplier of the SDS:

PASINI Laboratorio Chimico S.n.c. - del Dr. Giovanni Pasini & C.

Via della Industria, 5 - 20875 Burago di Molgora (MB - Monza e Brianza), Italy

Tel. : +39 039 608.28.28 • Fax: deleted; e-mail: info@pasinilab.com

Exclusive worldwide Distributor:

Quattroti Dentech S.r.l., Via Maestri del Lavoro, 120 - 21040 CISLAGO (VA - Varese) - Italy,

Tel. : +39 02.94.55.27.20 • e-mail: info@quattroti.com

1.4: Product Safety telephone number: +39 039 608.28.28

Emergency telephone number: +39 039 608.28.28 - Fax: deleted.

2. Hazards identification / Identificazione dei pericoli

2.1: Classification of the substance/preparation: does not apply

Danger indications: none

No particular hazards known, except in the case of **individual hyper sensibility to Ethanol**.

Precautional safety advice / Consigli di prudenza:

P305+P351+P338: IN CASE OF CONTACT WITH EYES: rinse thoroughly;

Apply/pertinent ONLY in case of handling of bulk quantities: the relevant minimum standards for protective measures in the chemical industry should be observed:

P210 Keep away from heat sources, hot surfaces, sparks, free flames or other ignition sources. Do not smoke. **P260** Do not inhale vapours. **P280** Wear gloves/protective clothes/protect eyes

For laboratory and/or personal use, the quantity contained in the tube (20 g), usually does not cause any hazards arising from the handling of the product.

3. Composition / information on ingredients - identification of the substance

Chemical characterization/caratterizzazione chimica:

Carrier: Low molecular weight poly Vinyl Acetate (PVAc) - Preparation: high viscose solution in Ethanol

4. First aid measures

General information: No special measures necessary. Laboratory tests on animals, and more than 15 years of clinical practice proved that the product is well tolerated, even after prolonged use.

Only **if very hot molten product** comes in contact with skin: cool quickly with cold water, do not pull solidified product from skin, and take for medical treatment.

Warm or cool product usually does not cause any problem in contact with skin.

The substance is specifically destined in contact with oral mucosa; on the basis of the information in our possess, it does not cause reactions, except in the case of individual hyper sensibility to Ethanol.

In case of **contact with eyes (improper use)** delicately remove the product and rinse thoroughly with water. Begin with medical treatment.

After ingestion (**improper use**): the quantity contained in the tube (20 g), usually does not cause hazards in case of ingestion (**improper use**), and it is difficult to swallow the entire contents of the tube. In case of ingestion: do not induce vomiting, call in a physician immediately and show him the Safety Data Sheet.

5. Fire-fighting measures (indications apply **ONLY** in case of handling of bulk quantities):

5.1 Suitable extinguishing media: foam, carbon dioxide, dry powder, full water jet, water spray jet
Extinguishing media that must not be used for safety reasons: does not apply

5.2: Special hazards from the substance itself, its combustion products or its vapours in case of fires, hazardous combustion gases are formed or released:
Carbon monoxide (CO); Carbon dioxide (CO₂); traces of Acetic Acid (CH₃ COOH)
Under certain conditions of combustion, traces of other toxic substances cannot be excluded

5.3: Special protective equipment for firefighting (**indications apply ONLY** in case of handling of bulk quantities): Use self-contained breathing apparatus.

6. Accidental release measures (indications apply **ONLY** in case of handling of bulk quantities):

6.1: Personal precautions, protection devices and procedures in case of emergency:
Wear personal protection devices - remove any source of ignition;
Risk of slipping if leaked/spilled product is not cleaned up.

6.2: Environmental precautions: Do not allow to enter drains or waterways;

6.3: Methods and materials for containment, taking up and cleaning up: remove without the use of solvents.
When picked up, treat material as prescribed under heading "Disposal".

7. Handling and storage Conservation: keep in a cool, dry place;

The following indications apply ONLY in case of handling of bulk quantities:

Advice for safe handling: Ensure good general ventilation in the workplace;

Advice of protection against fire and explosion:

Take precautions against accumulation of electrostatic charges

Requirements for storage rooms and vessels: Keep container tightly closed in a cool, well ventilated place.

Protect from direct sunlight. Protect from moisture.

Advice on storage compatibility: not required;

8. Exposure controls / personal protection

The following indications apply ONLY in case of handling of bulk quantities:

General protective measures

Observe precautions disposal of Directive 89/686/EEC and following amendments regarding individual protection equipment for handling materials in the chemistry industry.

8.2: Hygiene measures

The usual Industrial Hygiene precautions must be taken during work, in particular: do not drink, eat or smoke during the handling of the product.

In case of handling of bulk quantities: clean hands during work intervals, and after work.

Respiratory protection: in case of insufficient exhaust ventilation or prolonged exposure use respiratory protection equipment according to EEC-directive 89/686

Hand protection: Leather gloves, rubber gloves, Vinyl disposable gloves
Minimum thickness (glove): valid statement not possible.
Minimum breakthrough time (glove): valid statement not possible.

These types of protective gloves are offered by various manufacturers. Please note the manufacturer's detailed statements, especially about the minimum thickness and the minimum breakthrough time.

Consider also the particular working conditions under which the gloves are being used.

Eye protection : safety glasses

9. Physical and chemical properties

Form:	Soft resin: very highly viscous liquid, softens when heated
Color:	transparent/translucent pink
Odour:	characteristic vinylic/alcoholic
Melting point:	not detectable/not determined - soft at room temperature
Boiling point:	not detectable/not determined; decomposes at $T \gg 170\text{ }^{\circ}\text{C}$
Flash point:	not applicable
Self ignition temperature:	not applicable
Vapour pressure:	not applicable
Density:	approx. 1,03 g/cm ³
Solubility in water:	insoluble; slightly releases Ethanol
pH value:	not applicable
Octanol/water partition coefficient (log Pow):	not applicable
Viscosity (dynamic) :	not detectable
Thermal conductivity :	not determined
Specific resistance / electrical conductivity:	not determined

Further information:

Explosion hazard: there is not an explosion hazard in normal conditions of use.

10. Stability and reactivity

Thermal decomposition : Stable up to 160 °C; decomposes at $T \gg 170^{\circ}\text{C}$

Hazardous reactions:

No hazardous reactions when stored and handled according to prescribed instructions.

Hazardous decomposition products: No decomposition if used as intended;
at $T \gg 170^{\circ}\text{C}$: traces of Acetic Acid (CH_3COOH)

Conditions to avoid:

Temperatures exceeding thermal stability. **In case of bulk quantities:** electrostatic charges

Incompatible materials to avoid: not known/does not apply.

11. Toxicological information

The information is derived from the evaluation of the properties of the individual components, laboratory tests, and verified practical use of similar vinyl solutions, during decades:

Acute oral toxicity: LD50 > 2.000 mg/kg (rat)

Irritant effect on skin: non-irritant

Sensitization: non-sensitizing.

Remarks: In case of proper use, no damages to health are known.

12. Ecological information (apply ONLY in case of handling of bulk quantities):

12.1 Toxicity: use according to good working practices, avoid any dispersion in the environment;

12.2 Persistence and degradability: no specific information available;
on the basis of the product's components, and/or of structurally similar substances, the ecological data should be as follows: - reduced biodegradability of the resin;
- otherwise, the packaging is in Aluminum, paper, for these materials, consult the standard data.

12.3 Bioaccumulation potential: no information available/does not apply;

12.4 Mobility in the soil: cause its high viscosity, the product does not move easily in the soil;

12.5 PBT and vPvB evaluation: does not apply.

12.6 Other adverse effects: did not occur during decades of use.

Physico-chemical eliminability: the product can be separated out mechanically.

Remarks: (**apply ONLY in case of handling of bulk quantities**):do not allow to enter ground water, waterways or waste water.

13. Disposal considerations ((apply ONLY in case of handling of bulk quantities):

Product:

Residual chemical should be subjected to waste management in compliance with the EC Regulations (91/15/EEC; 91/689EEC; 94/62/EC), and following amendments, using an approved waste disposal contractor.

Uncleaned packaging: Uncleaned packaging material should be treated equivalent to residual chemicals. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

14. Transport information (bulk quantities):

14.1: UN number: none

14.2: UN expedition name: none;

14.3/14.4: danger classification related to transport/packaging group:

IATA not restricted

IMDG not restricted

ADR not restricted

RID not restricted

ADNR not restricted

14.5: danger for the environment: not dangerous for the environment, due to its composition; because of its high viscosity it tends to remain confined in the recipients, consequently the possibility of leakages and/or spills is reduced.

15. Regulatory information

15.1 Specific legislative and regulatory prescriptions about health, safety and environment, concerning the substance/preparation: not applicable.

Labelling in accordance with EC-Directives:

the product does not require any hazard warning label in accordance with EC-directives/ relevant national Laws.

Specific national regulations: not applicable

Other regulations: All ingredients of the product are registered in EINECS or ELINCS.

16. Other information

This document has been written by Dr. Giovanni Pasini, doctor in Pure Chemistry.

This information is based on our present state of knowledge at the date above indicated.

It should not therefore be construed as guaranteeing specific properties of the product described, or their suitability for a particular application.

It refers to the product in the state and condition in which it is supplied. It describes the product bearing in mind the safety requirements, and it does not concern warranty about technical data.

The user is committed to assure himself about the eligibility and completeness of the information hereabove, in connection with the intended use. This present document cancels and replaces any previous edition.