

Safety Data Sheet



GHOST ALIGNER



1 Identification of the substance / mixture and the company

Product identifier

commercial name:

GHOST ALIGNER

Use of the product:

Manufacture with thermoforming technique of dental aligner.
Only for professional users.

Manufacturer / Distributor:

BART MEDICAL S.r.l.
Viale Vincenzo Randi, 118
48124 Ravenna (RA) – Italy
E-mail: sales@bartmedical.com

Emergency telephone numbers:

BART MEDICAL S.r.l. – Italy
Telephone number: (+39) 0544 523326
Fax: (+39) 0544 523326 - H 24

2 Composition and information on ingredients

Identification of the substance

Composition: Special blend of Pet-g for dental aligners.

Hazardous components within the meaning of the CLP regulation and related classification:
None

3 Hazards identification

3.1 Classification of the substance or mixture

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Adverse physicochemical, human health and environmental effects: None
No other hazards

3.2 Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).
Ingredient(s) with unknown acute toxicity: None
Special provisions according to Annex XVII of REACH and subsequent amendments: None

3.3 Other hazards

No PBT ingredients are present

Material can accumulate static charges which may cause an electrical spark (ignition source).

4 First aid measures

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

4.1 Description of first aid measures

In case of skin contact:	Wash with plenty of water and soap
In case of eye contact:	Wash immediately with water
In case of ingestion:	Do not induce vomiting, get medical attention showing the SDS an label hazardous.
In case of inhalation:	Remove casualty to fresh air and keep warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

N.A.

5 Firefighting measures

Extinguishing media:	Water spray, carbon dioxide, dry chemical powder, foam.
Advice for firefighters:	Fire-fighters should wear positive pressure self-contained breathing apparatus and personal protective equipments, such as jacket (standard: EN469), helmet (standard: EN443), gloves (standard: EN407), boots (standard: EN345-S3 HI WRU HRO).Collect contaminated fire extinguishing water separately. This must not be discharged into drains.Move undamaged containers from immediate hazard area if it can be done safely.

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Mechanically remove the product

6.4. Reference to other sections

See also section 8 and 13.

7 Handling and storage

7.1. Precautions for safe handling

Product has a tendency to accumulate static charge during transport, handling and processing. Considering the risks of electrostatic discharges, handling the products in potentially flammable atmospheres should be evaluated. Suitable precautions should be taken at all times, in particular when emptying bags or other packaging. Reducing the velocity of transport will reduce charging. Static charge buildup can be a potential fire hazard when used in the presence of volatile or flammable mixtures. Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink or smoke while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

See Section 10.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

Refer to paragraph 1.

Industrial sector specific solutions:

None in particular.

8 Exposure controls

8.1. Control parameters

No data available

8.2. Exposure controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

General industrial hygiene practice: Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures: When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Eye protection:

Eye glasses (EN166).

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

The use of breathing apparatus must strictly comply with the manufacturer's instructions and regulations that govern the selection and use (EN 529).

No special precaution must be adopted for normal use.

Hygienic and Technical measures

Adequate ventilation should be provided so that exposure limits are not exceeded. Do not breathe dust/fume/gas/mist/vapours/spray. Keep away from food and drink. Do not eat, drink or smoke when using this product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Solid

Appearance and colour: Transparent

Odour: odourless

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: 160 °C (320 °F) Notes: 160-220°C

Initial boiling point and boiling range: N.A.

Flash point: N.A.

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density (air = 1): N.A.

Vapour pressure: N.A.

Density: 1.03 g/cm³ Notes: 1.03-1.05 g/cm³ at 20°C

Solubility in water: Insoluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: >230°C

Viscosity: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

9.2. Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Conductivity: N.A.

10 Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

See also section 2 and 9

10.4. Conditions to avoid

Heat and open flames

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

It emits toxic gases when heated to decomposition

11 Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product: No Data Available

12 Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

No Data Available

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT ingredients are present

12.6. Other adverse effects

N.A.

13 Disposable considerations

13.1. Waste treatment methods

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Drain container thoroughly.

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

14 Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number: N.A.

14.2. UN proper shipping name: N.A.

14.3. Transport hazard class(es): N.A.

14.4. Packing group: N.A.

14.5. Environmental hazards: N.A.

14.6. Special precautions for user: N.A.

Road and Rail (ADR-RID): N.A.

Air (IATA): N.A.

Sea (IMDG): N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

15 Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU)2015/830

Restrictions related to the product or the substances contained according to Annex XVII

Regulation (EC) 1907/2006 (REACH) and

subsequent modifications:

Restrictions related to the product: None

Restrictions related to the substances contained: None

Provisions related to directive EU 2012/18 (Seveso III):

German Water Hazard Class.

N.A.

SVHC Substances:

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

15.2. Chemical safety assessment

Chemical Safety Assessment: No

16 Other informations

This document was prepared by a competent person who has received appropriate training. The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release.

This document is not a material safety data sheet in accordance with Article 31 of Regulation No. 1907/2006(REACH) because the product is not classified as hazardous. The form of communication of safety information in 16 sections is generally known and, for this reason, this information is provided in this format.

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