

E.C. SAFETY DATA SHEET

According to EC - directive 91/155/EC

BRACON

Product Trade Name

ORACRYL ORTHODONTIC RESIN POWDER

Date revised: 03/01/1999

Status: version 3

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1. Identification of the substance/preparation and of the company/undertaking

1.1 Description of substance or preparation

Oracryl Orthodontic Resin Powder

1.2 Information on the supplier :

Bracon Limited
High Street, Etchingham
East Sussex, TN19 7AL

Tel: 01580 817000

Fax: 01580 819455

2. Composition/information on ingredients

2.1 Chemical name / content % / symbol/ R -phrases

Polymethyl methacrylate Co-polymer

CAS number 9011 - 14 - 7/92/5

EC number

EINECS number

3. Hazards identification

3.1 To people

See point 11 & 15

3.2 To the environment

See point 12.1

4. First aid measures

4.1 General information

Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.

Remove soiled, soak clothing immediately.

4.2 After inhalation

Remove the casualty into fresh air and keep him/her calm.

Remove from danger area, refer for medical treatment if necessary.

Keep data sheet available.

4.3 After contact with skin

In case of contact with skin wash off immediately with soap and water.

If skin irritation occurs, seek medical attention.

4.4 After contact with eyes

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

4.5 After ingestion

Summon a doctor immediately, have data sheet available.

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5. Fire-fighting measures

5.1 Suitable extinguishing media

Water spray jet
Foam
Dry powder
Carbon dioxide

5.2 Unsuitable extinguishing media for safety reasons

n.g.

5.3 Special protective equipment for fire-fighting

Use breathing apparatus, if necessary independent air supply.

5.4 Special dangers caused by the substance or preparation itself, results of fire/burning or ensuing gases

In case of fire following by-products can develop
Methyl methacrylate vapour, Oxides of carbon

6. Accidental release measures

See point 8 & 13

6.1 Personal precautions

Remove possible causes of ignition - do not smoke.
Avoid inhalation and contact with eye or skin.
Avoid build up of dust.

6.2 Environmental measures

If leakage occurs, dam up.
If accidentally enters into drainage system, inform the responsible authorities.

6.3 Methods of cleaning / absorption

Do not allow getting into the sewerage system.
Larger quantities: Remove mechanically and dispose off according to point 13.
Provide adequate ventilation.

7. Handling and storage

7.1 Handling

7.1.1 Instructions on safe handling

Ensure the area is well ventilated. Take precautions against electrostatic discharges. Observe directions on label. Keep away from source of ignition - do not smoke.
Only use working methods according to operating instructions.
Eating, drinking, smoking, as well as food storage, is prohibited in work room.

7.2 Information on fire and explosion protection

Use explosion-proof equipment only. In the event of fire, cool the endangered containers with water. Keep away from sources of ignition - no smoking. Take precautionary measures against static discharges.

7.3 Storage

7.3.1 Requirements for storage areas and containers

Keep only in the original container at a temperature not exceeding 40°C. Keep container close after use. Do not store in gangways or stairwells.

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8. Exposure controls/personal protection

Components or products of decomposition according to point 10, with limit values related to the place of work which require monitoring.

- 8.1 MAK -Value/ TRK -Value/ BAT Value 6 mg/m³
- 8.2 Personal protective equipment
 - 8.2.1 General protective measures
Do not inhale vapours/dust. Avoid contact with eyes and skin.
 - 8.2.2 Hygiene measures
Store work clothing separately. Follow the usual good standards of occupational hygiene.
 - 8.2.3 Respiratory Protection
Breathing apparatus to be used in the event of 6mg/m³ high dust concentration exceeds. Breathing masks with fine dust filters are necessary.
 - 8.2.4 Hand protection
Recommended
 - 8.2.5 Eye protection
Recommended
 - 8.2.6 Body protection
When handling larger quantities, use face mask and usual protective working garments.

9. Physical and chemical properties

Form	White - powder
Colour	Colourless
Odour	Odourless or faint ester-like
Melting temperature	°C
Boiling temperature	°C
Flash point	>200°C
Ignition temperature	>350°C, ASTM - 0, 1929 - 68 °C
Lower explosion limit	°C
Upper explosion limit	°C
Vapour pressure	not applicable
Density	700 kg/m ³ +/- 10 kg/m ³
Relative vapour density	
Solubility in water	insoluble
Solubility/qualitative	
Miscible with most organic solvents.	soluble in most organic solvents
pH value	
Viscosity dynamic	

10. Stability and reactivity

10.1 Conditions to avoid

- Thermal decomposition
- Protect from humidity > 200°C

10.2 Hazardous reactions

Avoid contact with other chemicals. No hazardous reaction when used as directed. May polymerise with unsaturated monomers. Dust explosion class; ST1

10.3 Hazardous decomposition products

See point 5.4

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11. Toxicological information

11.1 Acute oral toxicity >5000 mg/kg
LD50 rat

11.1.1 Acute inhalation toxicity n.g.
LC50 rat

11.1.2 Acute dermal toxicity n.g.
LD50, rabbit dermal

11.1.3 Skin irritation Non irritant

11.1.4 Irritant effect on the eyes Non-irritating

11.2 Chronic toxicity

11.2.1 Sensitisation No

11.2.2 Carcinogenicity n.g.

11.2.3 Mutagenicity n.g.

11.2.4 Reproductive Toxicity n.g.

11.2.5 Narcosis n.g.

11.3 Further Information n.g.

12. Ecological information

12.1 Biodegradability n.v.

12.2 Behaviour in sewage plants n.v.

12.3 Aquatic toxicity n.v.

12.4 Water hazard class 0

12.5 Self classification ACC To VCI Yes, Classification in accordance with the UK water resources act.

13. Disposal considerations

13.1 For the material/preparation/residue

EEC disposal code no. n.v.

Recommendation

Pay attention to local and national official regulation

Use suitable incineration plant

Dispose at suitable refuse site

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14. Transport information

Overland transport

UN No. road / rail

GGVS

ADR

GGVE

RID

GGVS/ADR designation

GGVE/RID designation

Shipment by sea

UN No. sea

IMDG/GGVSea-code

EmS-number

MF AG -number

Air transport

UN-/ID-No.

ICAO/IATA-classification

Other information

Not dangerous cargo. Avoid heat above 40°C, Keep dry and keep away from food stuffs.

15. Regulatory information

Labelling in accordance with GefStoffV/EC

Hazard symbols

Xi

Irritant

F

Highly flammable

R-phrases

11

Highly flammable

36/37/38

Irritating to eyes, respiratory system and skin.

43

May cause sensitisation by skin contact.

S-phrases

2

Keep out of reach of children.

9

Keep container in a well ventilated place.

16

Keep away from sources of ignition --No smoking.

29

Do not empty into drains.

33

Take precautionary measures against static discharges.

16. Other information

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.