

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 1907/2006
Power Pattern – Ref.: Power Pattern

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

1.1 Product identifier

Power Pattern

1. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Light-curing dental modelling gel

1.3 Details of the supplier of the safety data sheet

ZrO² PowerTools GmbH & Co. KG
Conrad-Röntgen-Str. 7
92637 Weiden
Germany

Tel.: +49 (0) 961 20 64 81 82
E-mail: powertools@zro2.net
zro2powertools.com

1.4 Emergency telephone number

+49 (0) 961 20 64 81 82
(Mon–Fri, 9:00 a.m. – 4:00 p.m.)

2. Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous within the meaning of Regulation (EC) No. 1272/2008.

2.2 Label elements

Regulation (EC) No. 1272/2008

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection.

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local regulations. Special labelling of certain mixtures. For professional users only.

2.3 Other hazards

The substances contained in the mixture do not meet the PBT/vPvB criteria in accordance with REACH, Annex XIII. In the presence of radical-forming agents (e.g. peroxides), reducing substances and/or heavy metal ions, polymerisation with heat generation is possible.

3. Composition/information on ingredients

3.2 Mixtures

Chemical characterisation

Mixture of acrylic resins and initiators.

Hazardous ingredients

None (in accordance with Regulation (EC) No. 1907/2006 (REACH)).

4. First aid measures

4.1 Description of first aid measures General information

Medical attention is required in the event of symptoms that are obviously attributable to exposure of the skin or eyes to the product or to inhalation of its vapours. Remove contaminated, saturated clothing immediately.

After inhalation

Provide fresh air. Medical treatment is necessary.

After skin contact

In case of contact with skin, wash immediately with plenty of water and soap. Contaminated clothing must be changed immediately. Medical treatment is necessary.

After eye contact

Immediately rinse carefully and thoroughly with an eyewash or water. Consult an ophthalmologist. Im-

After ingestion

Do not induce vomiting. Medical treatment is necessary.

4.2 Most important acute and delayed symptoms and effects

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following may be formed: Carbon monoxide, Carbon dioxide, Hazardous decomposition products.

5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with a water spray. Collect contaminated firefighting water separately. Do not allow it to enter drains or surface waters.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General information

Ensure adequate ventilation. Do not breathe gas/smoke/vapour/aerosol.
Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2 Environmental precautions

Do not allow the product to enter drains or surface waters.

6.3 Methods and material for containment and cleaning up

Further information

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder).
Treat the collected material in accordance with the disposal section.

6.4 Reference to other sections

Safe handling: see Section 7

Personal protective equipment: see Section 8

Disposal: see Section 13

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Ensure good room ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition – No smoking.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothing. Establish and observe a skin protection plan.
Wash hands and face thoroughly before breaks and at the end of work; shower if necessary.
Do not eat or drink while working.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers

Protect from exposure to light. Store only in the original container at a temperature between 4–25 °C. May polymerise with significant heat generation.

Advice on joint storage

No special precautions are required.

8. Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting safety goggles.

Hand protection

Protective gloves should be changed regularly, particularly after intensive contact with the product. A suitable type of glove must be selected for each workplace.

Body protection

Wear suitable protective clothing for the work being performed.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Gel

Colour: Red

Odour: Characteristic

Melting point/freezing point: Not determined

Boiling point or initial boiling point and boiling range: Not determined

Flammability: Not determined

Lower explosion limit: Not determined

Upper explosion limit: Not determined

Flash point: > 150 °C

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

pH: Not determined

Kinematic viscosity: Not determined

Water solubility: Not determined

Solubility in other solvents: Not determined

Partition coefficient n-octanol/water: Not determined

Vapour pressure: Not determined

Density: 1.1 g/cm³

Relative vapour density: Not determined

Particle characteristics: Not applicable

9.2 Other information

Information with regard to physical hazard classes

Auto-ignition temperature

Solid: Not applicable

Gas: Not applicable

Other safety characteristics

Evaporation rate: Not determined

Solid content: Not determined

Dynamic viscosity: 250 × 1000 mPa·s (at 20 °C)

Further information

The product has not been tested. The statement is derived from the properties of the individual components.

10. Stability and reactivity

10.1 Reactivity

No hazardous reactions occur under conditions of proper handling and storage.

10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3 Possibility of hazardous reactions

In the presence of radical-forming agents (e.g. peroxides), reducing substances and/or heavy metal ions, polymerisation with heat generation is possible.

10.4 Conditions to avoid

Protect from exposure to light. Store only in the original container at a temperature between 4–25 °C. May polymerise with significant heat generation.

10.5 Incompatible materials

Oxidising agents, reducing agents, heavy metals, acids, alkalis.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

Acute toxicity

Based on the available data, the classification criteria are not met.

Calculated ATE_{mix}

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation, vapour) > 20 mg/l
ATE (inhalation, dust/mist) > 5 mg/l

Irritation and corrosivity

Based on the available data, the classification criteria are not met.

Sensitising effects

Based on the available data, the classification criteria are not met.
Sensitisation is possible in predisposed individuals.

Carcinogenic, mutagenic and reproductive toxicity effects

Based on the available data, the classification criteria are not met.

Specific target organ toxicity – single exposure

Based on the available data, the classification criteria are not met.

Aspiration hazard

Based on the available data, the classification criteria are not met.

11.2 Information on other hazards

General remarks

The product has not been tested. The statement is derived from the properties of the individual components.

12. Ecological information

12.2 Persistence and degradability

The product has not been tested.

12.3 Bioaccumulative potential

The product has not been tested.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

The substances contained in the mixture do not meet the PBT/vPvB criteria in accordance with REACH, Annex XIII. The product has not been tested.

12.6 Endocrine disrupting properties

This product does not contain any substance that has endocrine-disrupting properties for non-target organisms, as none of the ingredients meets the relevant criteria.

12.7 Other adverse effects

No information available.

Further information

Do not allow the product to enter the environment in an uncontrolled manner.

Do not allow it to enter drains or surface waters.

13. Disposal considerations

13.1 Waste treatment methods

Recommendations for disposal

Small quantities may be cured with light and disposed of with household waste.

Larger quantities must be disposed of as hazardous waste in accordance with national regulations. Do not allow the product to enter drains or surface waters. Dispose of in accordance with official regulations.

Waste code 070208 – unused product

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibres; other reaction and distillation residues; hazardous waste.

Waste code 070208 – used product

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibres; other reaction and distillation residues; hazardous waste.

Waste code 070208 – uncleaned packaging

WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibres; other reaction and distillation residues; hazardous waste.

Disposal of contaminated packaging and recommended cleaning agents

This product and its container must be disposed of as hazardous waste.

Contaminated packaging must be treated in the same manner as the substance.

14. Transport information

Land transport (ADR/RID)

Other applicable information on land transport

Not classified as dangerous goods under these transport regulations.

Inland waterway transport (ADN)

Other applicable information on inland waterway transport

Not classified as dangerous goods under these transport regulations.

Sea transport (IMDG)

Other applicable information on sea transport

Not classified as dangerous goods under these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information on air transport

Not classified as dangerous goods under these transport regulations.

14.6 Special precautions for user

No information available.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

15. Regulatory information

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

Restrictions on use (REACH, Annex XVII): Entry 75

National regulations

Water hazard class: 1 – slightly hazardous to water

Status: Mixture rule according to VwVwS Annex 4, No. 3

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture have not been carried out.

16. Other information

Changes

This safety data sheet contains changes to the previous version in the following sections:

2, 5, 9, 10, 16

Reason for revision: Changed classification

Reason for revision: Regulation (EU) No. 2020/878, Annex II.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Further information

The information provided in this safety data sheet corresponds, to the best of our knowledge, to our information at the time of printing. The information is intended to provide guidance for the safe handling of the product specified in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. If the product is mixed, blended or processed with other materials, or subjected to processing, the information contained in this safety data sheet may not, unless expressly stated otherwise, be transferred to the newly manufactured material. (The data concerning the hazardous ingredients were taken from the latest available safety data sheet provided by the respective supplier.)