SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: AGC Pre Powder

CAS Number: 70693-62-8
EC number: 274-778-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture Auxiliary for dental technology

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Ivoclar Vivadent AG
Bendererstrasse 2
LI-9494 Schaan
PRINCIPALITY OF LIECHTENSTEIN

Tel: +423 235 35 35
Fax: +423 235 33 60

Further information obtainable from:
Regulatory Affairs
sds@ivoclarvivadent.com

1.4 Emergency telephone number: +423 / 235 33 13 (Ivoclar Vivadent AG, LI-9494 Schaan, Liechtenstein)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Acute Tox. 4 H302 Harmful if swallowed.
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:
pentapotassium bis(peroxymonosulphate)bis(sulphate)

Hazard statements
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statements
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances

CAS No. Description
70693-62-8 pentapotassium bis(peroxymonosulphate)bis(sulphate)

Identification number(s)
EC number: 274-778-7

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

After inhalation:
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Immediately rinse with water.
If skin irritation continues, consult a doctor.

After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Sulphur dioxide (SO2)

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

(Contd. on page 3)
6.3 Methods and material for containment and cleaning up:
Pick up mechanically.
Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Only adequately trained personnel should handle this product.
For use in dentistry only.
Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:
Keep container tightly sealed.
Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace: Not required.
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Respiratory protection: Not necessary if room is well-ventilated.
Protection of hands:

Protective gloves (EN 374)

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves
Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Chloroprene rubber, CR

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Trade name: AGC Pre Powder

- **Eye protection:**
  Tightly sealed goggles (EN 166)

- **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**General Information**

- **Appearance:** Crystalline powder
- **Colour:** White
- **Odour:** Odourless
- **Odour threshold:** Not determined.

- **pH-value (30 g/l) at 25 °C:** 2

- **Change in condition**
  - **Melting point/freezing point:** Undetermined.
  - **Initial boiling point and boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Contact with combustible material may cause fire.

- **Auto-ignition temperature:** Not determined.

- **Explosive properties:** Product does not present an explosion hazard.

- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.

- **Vapour pressure:** Not applicable.

- **Density at 20 °C:** 1.1 - 1.2 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.

- **Solubility in / Miscibility with water at 20 °C:** 256 g/l

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**
  - **Dynamic:** Not applicable.
  - **Kinematic:** Not applicable.

#### 9.2 Other information

No further relevant information available.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No further relevant information available.

#### 10.2 Chemical stability

Stable under normal handling and storage conditions.

#### Thermal decomposition / conditions to be avoided

To avoid thermal decomposition do not overheat.

#### 10.3 Possibility of hazardous reactions

Reacts with alkali (lyes).
SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute toxicity
Harmful if swallowed.

11.1.2 Skin corrosion/irritation
Causes severe skin burns and eye damage.

11.1.3 Serious eye damage/irritation
Causes serious eye damage.

11.1.4 Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

11.1.5 Germ cell mutagenicity
Based on available data, the classification criteria are not met.

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

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

11.1.8 STOT-single exposure
Based on available data, the classification criteria are not met.

11.1.9 STOT-repeated exposure
Based on available data, the classification criteria are not met.

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

SECTION 12: Ecological information

12.1 Toxicity

12.1.1 Aquatic toxicity:
No further relevant information available.

12.1.2 Persistence and degradability
No further relevant information available.

12.1.3 Bioaccumulative potential
No further relevant information available.

12.1.4 Mobility in soil
No further relevant information available.

12.1.5 Additional ecological information:

12.1.5.1 General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.1.5.2 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.1.5.3 Other adverse effects
No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.
### SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR/RID/ADN, IMDG, IATA  
  - UN3260

- **14.2 UN proper shipping name**
  - ADR/RID/ADN  
  - IMDG, IATA  
  - 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (pentapotassium bis(peroxymonosulphate)bis(sulphate))
  - CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (pentapotassium bis(peroxymonosulphate)bis(sulphate))

- **14.3 Transport hazard class(es)**
  - ADR/RID/ADN  
    - Class 8 (C2) Corrosive substances.
    - Label 8
  - IMDG, IATA  
    - Class 8 Corrosive substances.
    - Label 8

- **14.4 Packing group**
  - ADR/RID/ADN, IMDG, IATA  
  - II

- **14.5 Environmental hazards:**
  - Not applicable.

- **14.6 Special precautions for user**
  - Warning: Corrosive substances.
  - Danger code (Kemler): 80
  - EMS Number: F-A,S-B
  - Stowage Category B

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.

### Transport/Additional information:

- **ADR/RID/ADN**
  - Limited quantities (LQ) 1 kg  
    - Code: E2
  - Excepted quantities (EQ)  
    - Maximum net quantity per inner packaging: 30 g
    - Maximum net quantity per outer packaging: 500 g
  - Transport category 2
  - Tunnel restriction code E

- **IMDG**
  - Limited quantities (LQ) 1 kg  
    - Code: E2
  - Excepted quantities (EQ)  
    - Maximum net quantity per inner packaging: 30 g
    - Maximum net quantity per outer packaging: 500 g
SECTION 15: Regulatory information

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I Substance is not listed.
- Seveso category P8 OXIDISING LIQUIDS AND SOLIDS

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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 Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1