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

1.1 Product identifier

Trade name: AGC Micro gold electrolyte, AGC Vision gold electrolyte

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

Galvanic bath

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS07

Signal word Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

Additional information:

EUH031 Contact with acids liberates toxic gas.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

(Contd. on page 2)
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: AGC Micro gold electrolyte, AGC Vision gold electrolyte

- vPoB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
  - Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components:
  - CAS: 10196-04-0
    - EINECS: 233-484-9
    - ammonium sulphite
    - Skin Irrit. 2, H315; Eye Irrit. 2, H319
    - 2.5-<10%
  - CAS: 71662-32-3
    - EINECS: 275-798-9
    - Ammoniumgoldsulfit
    - Skin Irrit. 2, H315; Eye Irrit. 2, H319
    - 2.5-<10%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - 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.
    - Seek medical treatment.

- 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
  During heating or in case of fire poisonous gases are produced.
  - In case of fire, the following can be released:
    - Nitrogen oxides
    - Sulphur oxides (SOx)

- 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 clothing.

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

- 6.3 Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Ensure adequate ventilation.

- 6.4 Reference to other sections
  - See Section 7 for information on safe handling.
SECTION 7: Handling and storage

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

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Storage:
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
Information about storage in one common storage facility: Do not store together with acids.

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

8.2.1 Personal protective equipment:

8.2.2 General protective and hygienic measures:
Usual hygienic measures for dental practice and dental laboratories.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the eyes and skin.

8.2.3 Respiratory protection: Not necessary if room is well-ventilated.

8.2.4 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Trade name: AGC Micro gold electrolyte, AGC Vision gold electrolyte

Eye protection:

Tightly sealed goggles (EN 166)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Fluid
- Colour: Colourless
- Odour: Ammonia-like
- Odour threshold: Not determined.
- pH-value at 20 °C: 9
- Change in condition
  - Melting point/freezing point: Undetermined.
  - Initial boiling point and boiling range: ~105 °C
- Flash point: Undetermined.
- Flammability (solid, gas): Not applicable.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.
- Vapour pressure: Not determined.
- Density at 20 °C: 1.08 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.

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.

10.3 Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
To avoid thermal decomposition do not overheat.

10.4 Possibility of hazardous reactions
Contact with acids releases toxic gases.

10.5 Incompatible materials:
No further relevant information available.
:: 10.6 Hazardous decomposition products:
Nitrigen oxides
Sulphur oxides (SOx)

SECTION 11: Toxicological information

:: 11.1 Information on toxicological effects
:: Acute toxicity Based on available data, the classification criteria are not met.
:: Skin corrosion/irritation Causes skin irritation.
:: Serious eye damage/irritation Causes serious eye irritation.
:: Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
:: Germ cell mutagenicity Based on available data, the classification criteria are not met.
:: Carcinogenicity Based on available data, the classification criteria are not met.
:: Reproductive toxicity Based on available data, the classification criteria are not met.
:: STOT-single exposure Based on available data, the classification criteria are not met.
:: STOT-repeated exposure Based on available data, the classification criteria are not met.
:: Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

:: 12.1 Toxicity
:: Aquatic toxicity: No further relevant information available.
:: 12.2 Persistence and degradability No further relevant information available.
:: 12.3 Bioaccumulative potential No further relevant information available.
:: 12.4 Mobility in soil No further relevant information available.
:: Additional ecological information:
:: 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.
:: 12.5 Results of PBT and vPvB assessment
:: PBT: Not applicable.
:: vPvB: Not applicable.
:: 12.6 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, ADN, IMDG, IATA Void
Trade name: AGC Micro gold electrolyte, AGC Vision gold electrolyte

- 14.2 UN proper shipping name
  - ADR/RID/ADN, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es)
  - ADR/RID/ADN, ADN, IMDG, IATA Void
- 14.4 Packing group
  - ADR/RID/ADN, IMDG, IATA Void
- 14.5 Environmental hazards:
  - Not applicable.
- 14.6 Special precautions for user
  - Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.
- Transport/Additional information:
  - Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
- UN "Model Regulation": Void

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 None of the ingredients is listed.
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 65
  - National regulations:
    - Other regulations, limitations and prohibitive regulations
      The product is a medical device according to the Directive 93/42/EEC.
  - 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.

Relevant phrases
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Classification according to Regulation (EC) No 1272/2008
The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

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
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2