





Gipex

1. Identification of the substance / Preparation and Company: *

- 1.1 Product identifier
Commercial product name: Gipex gypsum dissolving agent
- 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: ERNST HINRICHS Dental GmbH
Street / mailbox: Borsigstr. 1
Country code. / postal code / city: D - 38644 Goslar
Phone: 0 53 21 / 5 06 24
Fax: 0 53 21 / 5 08 81
E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
Further information obtainable from: ERNST HINRICHS Dental GmbH
Importer: Ivoclar Vivadent Ltd
12 Omega St, Rosedale, Auckland, New Zealand Phone +64 9 914 9999 Fax +64 9 914 9990
www.ivoclarvivadent.co.nz
- 1.4 Emergency telephone number
0800 764 766 (National Poison Centre)
Poisons Hotline (24 hours / 7 days)

2. Hazards identification *

- 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008:
 GHS07
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:
H319 Causes serious eye irritation
Precautionary statements:
P280: Wear protective gloves / eye protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
- 2.3 Other hazards:
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. Composition/ information on ingredients *

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

Dangerous components:

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CAS: 65501-24-8	glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tripotassium salt, dihydrate	10-25 %
EINECS: 241-543-5	 Acute Tox. 4, H332	

CAS: 584-08-7	potassium carbonate	10-25 %
EINECS: 209-529-3	 Acute Tox. 4, H302; Eye Irrit. 2, H319	

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

4. First aid measures: *

- 4.1 Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
After skin contact: Rinse with warm water.
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, 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.

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: No further relevant information available.
- 5.3 Advice for firefighters:
Protective equipment: No special measures required.

6. Accidental release measures: *

- 6.1 Personal precautions, protective equipment and emergency procedures: Not required.
- 6.2 Environmental precautions: Dilute with plenty of water.
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).
- 6.4 Reference to other sections: No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and Storage: *

- 7.1 Precautions for safe handling:
Information about fire - and explosion protection: No special precautions are necessary if used correctly.
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: Store in upright position. Keep container tightly sealed.
- 7.3 Specific end use(s): No further relevant information available.

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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures: Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Respiratory protection: Not required.
Protection of hands: Protective gloves and protective skin cream



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

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.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Rubber gloves

For the permanent contact gloves made of the following materials are suitable: Neoprene gloves

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Natural rubber, NR
Nitrile rubber, NBR

Eye protection:



Tightly sealed goggles

9. Physical and chemical properties: *

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Fluid

Colour:

Colourless

Odour:

Characteristic

Odour threshold:

Not determined.



pH-value at 20 °C:	8
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.2 g/cm ³
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.
Solvent content:	
Water:	66.8 %
VOC (EC)	0 %
Solids content:	35.0 %
9.2 Other information:	No further relevant information available.

10. Stability and Reactivity: *

10.1 Reactivity:	
10.2 Chemical stability:	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	No further relevant information available.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition products:	Carbon dioxide

11. Toxicological Information: *

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	18,333 mg/kg (rat)

6 5501-24-8 glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tripotassium salt, dihydrate		
Inhalative	LC50/4 h	11 mg/l (ATE)
584-08-7 potassium carbonate		
Oral	LD50	500 mg/kg (ATE)

Primary irritant effect:

Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.



CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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.

12. Ecological Information: *

12.1 Toxicity
 Aquatic toxicity: No further relevant information available.
 12.2 Persistence and degradability: biodegradable
 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.

13. Disposal considerations: *

13.1 Waste treatment methods
 Recommendation: Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 07 00	wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 01	aqueous washing liquids and mother liquors

13.2 Uncleaned packaging:
 Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
 Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport Information: *

14.1 UN-Number
 ADR, ADN, IMDG, LATA: Void
 14.2 UN proper shipping name
 ADR: Void
 AND, IMDG, LATA: Void
 14.3 Transport hazard class(es)
 ADR, ADN, IMDG, LATA: Class: Void
 14.4 Packing group
 ADR, IMDG, LATA: Void
 14.5 Environmental hazards:
 Marine pollutant: No
 14.6 Special precautions for user: Not applicable.



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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
ADR	
Limites quantities (LQ)	-
Transport category	Not hazardous
UN "Model Regulation":	Void

15. Regulatory Information: *

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008: GHS label elements

Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition.
Standard for the Uniform Scheduling of Medicines and Poisons.
Carcinogen classification under WHS Regulation 2011, Schedule 10.
Notification status in accordance with section 3 and current national legislation.
HSNO Approval: HSR005777, HSR005285
EPA NZ Classes of hazardous properties:
Classification 6.3A Irritating to the skin
Classification 6.4A Irritating to the eye
Classification 6.4A Irritating to the eye
Classification 9.1C (All) Harmful in the aquatic environment
Classification 9.1C (F) Harmful in the aquatic environment
Classification 9.1C (C) Harmful in the aquatic environment
Classification 9.1C (A) Harmful in the aquatic environment
Conditions of restriction: 3

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

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.

16.1 Relevant phrases:

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

16.2 Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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Acute Tox. 4: Acute toxicity, Hazard Category 4

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

* Data compared to the previous version altered.