according to 1907/2006/EG, Article 31

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**Gipex** 

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

**Product identifier** 

Commercial product name: Gipex gypsum dissolving agent

1.2 Relevant identified uses of the substance or No further relevant information available.

mixture and uses advised against:

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 0 53 21 / 5 06 24 Phone: 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** 

1.4 Emergency telephone number

**ERNST HINRICHS Dental GmbH:** +49 (0) 53 21 / 5 06 24 (Mon-Fri. 8 a.m. – 4 p.m.)

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

STOT RE 2 May cause damage to the lung through prolonged or repeated exposure.

Route of exposure: Inhalation.

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:



GHS08

Signal word: Warning

Hazard-determining components of

labelling:

disodium dihydrogenethylenediaminetetraacetate

#### **Hazard statements:**

H373 May cause damage to the lung through prolonged or repeated exposure. Route of

exposure: Inhalation.

### **Precautionary statements:**

P260 Do not breathe spray.

Wear protective gloves / eye protection. P280:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

#### 2.3 Other hazards:

#### Results of PBT and vPvB assessment:

according to 1907/2006/EG, Article 31



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PBT: Not applicable. Not applicable. vPvB:

## **SECTION 3: Composition/information on ingredients**

**Mixtures** 

**Description:** Mixture of substances listed below with nonhazardous

additions.

Dangerous components:		
CAS: 139-33-3 EINECS: 205-358-3 Reg.nr.: 01-2119486775-20	disodium dihydrogenethylenediaminetetraacetate  STOT RE 2, H373  Acute Tox. 4, H332	10-25 %
CAS: 584-08-7	potassium carbonate	2.5-10%
EINECS: 209-529-3 RTECS: TS 7750000	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

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

#### **SECTION 4: First aid measures**

**Description of first aid measures** 

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

Rinse opened eye for several minutes under running water. After eye contact:

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.

## **SECTION 5: Firefighting measures**

**Extinguishing media** 

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water

spray or alcohol resistant foam.

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.

#### **SECTION 6: Accidental release measures**

Personal precautions, protective equipment Not required. and emergency procedures

according to 1907/2006/EG, Article 31

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**Environmental precautions:** 

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6.2

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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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.

**SECTION 7: Handling and storage** 

**7.1 Precautions for safe handling:**No special precautions are necessary if used correctly.

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:

Store in upright position.

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

**SECTION 8: Exposure controls/personal protection** 

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

**Appropriate engineering controls:** No further data; see item 7.

General protective and hygienic measures: Wash hands before breaks and at the end of work.

**Respiratory protection:** Not required.

**Hand protection:** Protective gloves and protective skin cream

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

according to 1907/2006/EG, Article 31

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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 of a maximum of 15 minutes gloves made of the following

materials are suitable:

Natural rubber, NR Nitrile rubber, NBR

Eye/face protection:



100 °C

8

Tightly sealed goggles

### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

**General Information** 

Colour:ColourlessOdour:PleasantOdour threshold:Not determined.Melting point/freezing point:Undetermined.

Boiling point or initial boiling point and

boiling range:

Flammability: Not applicable.

Lower and upper explosion limit

Lower:
Upper:
Not determined.
Plash point:
Not applicable.
Decomposition temperature:
Not determined.

pH at 20 °C:

Viscosity

**Kinematic viscosity: Dynamic:**Not determined.
Not determined.

Solubility

water: Fully miscible.

Partition coefficient n-octanol/water (log Not determined.

value):

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C: 1.2 g/cm<sup>3</sup>

Relative density:

Vapour density:

Not determined.

Not determined.

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health and environment, and on safety

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**Auto-ignition temperature:** Product is not selfigniting.

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

Solvent content:

 Water:
 67,0 %

 VOC (EC):
 0 %

 Solids content:
 35.0 %

Change in condition

**Evaporation rate:** Not determined.

Information with regard to physical hazard classes **Explosives:** Void Flammable gases: Void Aerosols: Void **Oxidising gases:** Void Gases under pressure: Void Flammable liquids: Void Flammable solids: Void Self-reactive substances and mixtures: Void **Pyrophoric liquids:** Void **Pyrophoric solids:** Void Self-heating substances and mixtures: Void Substances and mixtures, which emit Void flammable gases in contact with water:

Oxidising liquids:VoidOxidising solids:VoidOrganic peroxides:VoidCorrosive to metals:VoidDesensitised explosives:Void

**SECTION 10: Stability and reactivity** 

**10.1 Reactivity:**No further relevant information available.

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

**SECTION 11: Toxicological information** 

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

Acute toxicity: Based on available data, the classification criteria are not

met.

LD/LC50 values relevant for classification:				
ATE (Acute Toxicity Estimates)				
Oral Inhalative	LD50 LC50/4 h	18,700 mg/kg (rat) 47.8 mg/l		
1 39-33-3 disodium dihydrogenethylenediaminetetraacetate				

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Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>1-5 mg/l (rat)

**Skin corrosion/irritation:** Based on available data, the classification criteria are not

met.

Serious eye damage/irritation: Based on available data, the classification criteria are not

met

**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.

Additional toxicological information:

**Sensitisation:** Based on available data, the classification criteria are not

met.

11.2 Information on other hazards

**Endocrine disrupting properties:**None of the ingredients is listed.

**SECTION 12: Ecological information** 

12.1 Toxicity

Aquatic toxicity:			
139-33-3 disodium dihydrogenethylenediaminetetraacetate			
EC50	500 mg/l (Bel)		
	140 mg/l (daphnia)		
LC50/96h	>100 mg/l (fish)		

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.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

according to 1907/2006/EG, Article 31

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12.6 Endocrine disrupting properties: The product does not contain substances with endocrine

disrupting properties.

12.7 Other adverse effects: No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-

assessment): hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 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.

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.

**SECTION 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.

14.7 Maritime transport in bulk according to IMO

instruments:

Not applicable.

**Transport/Additional information:** Not dangerous according to the above specifications.

**SECTION 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

The product is classified and labelled according to the GB

CLP regulation.

Hazard pictograms:

according to 1907/2006/EG, Article 31

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Signal word: Warning

Hazard-determining components of

disodium dihydrogenethylenediaminetetraacetate

labelling:

**Hazard statements:** 

H373 Causes serious eye irritation

**Precautionary statements:** 

P260 Do not breathe spray.

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.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients is listed.

**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.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

## 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

according to 1907/2006/EG, Article 31

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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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

<sup>\*</sup> Data compared to the previous version altered.