

According to 1907/2006/EG,

Article 31

Date of issue: 09.09.2015

Printing date: 07.10.2015

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

Identification of the substance or preparation:

Commercial product name: Gipex gypsum dissolving agent

Company / Manufacturer:

ERNST HINRICHS Dental GmbH

Borsigstr. 1

D - 38644 Goslar

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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.

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:

CAS: 139-33-3	disodium dihydrogenethylenediaminetetraacetate	10 – 25 %
EINECS: 205-358-3	⚠ Acute Tox. 4, H332	
CAS: 584-08-7	potassium carbonate	2.5 – 9.9 %
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:

Generally the product does not irritate the skin.

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	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. If symptoms persist consult doctor.
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:	CO ₂ , 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.
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: Information about storage in one common storage facility: Further information about storage conditions:	Store only in the original receptacle. Not required. Store in upright position.
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: Additional information:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. The lists valid during the making were used as basis.
8.2	Exposure controls	

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Personal protective equipment:
General protective and hygienic measures:
Respiratory protection:
Protection of hands:

Wash hands before breaks and at the end of work.

Not required.

Protective gloves and protective skin cream

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:

Nitrile rubber, NBR

Butyl rubber, BR

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:

Recognisable

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.

Ignition temperature:

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/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.

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Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0 %
Solids content:	>30.0 %
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:	
	584-08-7 potassium carbonate	
	Oral LD50 1870 mg/kg (rat)	
	Primary irritant effect:	
	Skin corrosion/irritation:	No irritant effect.
	Serious eye damage/irritation:	Irritating effect.
	Respiratory or skin sensitisation:	No sensitising effects known.
	Subacute to chronic toxicity:	None
	Sensitisation:	None
	CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	
	Germ cell mutagenicity:	None
	Carcinogenicity:	None
	Reproductive toxicity:	None
	Aspiration hazard:	Void

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.

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Gipex**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 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

-

UN "Model Regulation":

-

15. Regulatory Information:**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Labelling according to Regulation

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

(EC) No 1272/2008:

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.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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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

Acute Tox. 4: Acute toxicity, Hazard Category 4

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