

**SAFETY DATA SHEET (EC 1907/2006)****Neacid**

Material no.		Version	<b>3.7 / GB</b>
Specification	<b>102872</b>	Revision date	<b>01.12.2014</b>
VA-Nr	<b>01,699,502</b>	Print Date	<b>01.12.2014</b>
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**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name Neacid  
REACH Registration No.: if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

**1.3. Details of the supplier of the safety data sheet**

Company DeguDent GmbH  
Postfach 1364  
D-63403 Hanau  
Telephone +49 (0)6181/59-5767  
Telefax +49 (0)6181/59-5879  
Email address SDB.Degudent-DE@dentsply.com

**1.4. Emergency telephone number**

Emergency information +49 (0)180 / 23 24-555 (international)

**2. Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Serious eye damage/eye irritation	Category 2	H319
Skin corrosion/irritation	Category 2	H315
Hazardous to the aquatic environment - Chronic Hazard	Category 3	H412

**Classification as per Directive 67/548/EC or Directive 1999/45/EC**

Xi, Irritant  
R36/38: Irritating to eyes and skin.  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2. Label elements****Labelling as per (EU) 1272/2008****hazard-defining component(s) (GHS)**

- sulfamic acid
- Symbol(s)



Signal word

Warning

Hazard statement

H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statement:  
Prevention

P273 - Avoid release to the environment.

Precautionary statement:  
Reaction

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap.

**2.3. Other hazards**

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A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**3. Composition/information on ingredients****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

<b>• sulfamic acid</b>			70% - 80%		
CAS-No.	5329-14-6	EC-No.	226-218-8		
Serious eye damage/eye irritation				Category 2	H319
Skin corrosion/irritation				Category 2	H315
Hazardous to the aquatic environment - Chronic Hazard				Category 3	H412

**Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC**

<b>• sulfamic acid</b>			70% - 80%		
CAS-No.	5329-14-6	EC-No.	226-218-8		
					Xi; R36/38 R52/53

Texts of H phrases, see in Chapter 16  
See chapter 16 for text of risk phrases

**4. First aid measures****4.1. Description of first aid measures**

Remove contaminated or saturated clothing immediately and dispose of safely.

**Inhalation**

Move victims into fresh air.

Consult a physician immediately.

**Skin contact**

Wash off with soap and plenty of water.

Consult a physician immediately.

**Eye contact**

Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution.

Consult an ophthalmologist.

**Ingestion**

Do not induce vomiting.

Rinse out mouth.

Immediately give large quantities of water to drink.

Consult a physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed****Symptoms**

None known

**4.3. Indication of any immediate medical attention and special treatment needed**

Therapy as for chemical burn.

If substance has been swallowed:

stomach pumping under gastroscopic view

**5. Fire-fighting measures**

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### 5.1. Extinguishing media

Suitable extinguishing media: mist  
quenching powder  
foam

Unsuitable extinguishing media: None known

### 5.2. Special hazards arising from the substance or mixture

Do not inhale decomposition gases or noxious gases.

### 5.3. Advice for firefighters

Extinction measures are to be adjusted to the specific location.  
The product itself does not burn.  
Employ protective equipment commonly used in the event of fire.

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## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid coming into contact with the following substance/substance classes: Product.  
Avoid dust formation.  
Do not breathe dust.

### 6.2. Environmental precautions

Introduction into soil, natural water bodies or sewerage must be prevented.

### 6.3. Methods and material for containment and cleaning up

Absorb mechanically avoiding production of dust.

#### Additional advice

Dispose of contaminated material as waste in accordance with section 13.

### 6.4. Reference to other sections

Wear personal protective equipment; see section 8.  
Disposal considerations; see section 13.

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## 7. Handling and storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices.  
If used in accordance with the regulations:  
Risk of serious damage to eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage

Keep container tightly sealed and store in a dry, well-ventilated place.

### 7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

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## 8. Exposure controls/personal protection

### 8.1. Control parameters

Remarks: None known

### 8.2. Exposure controls

#### Engineering measures

Handle in accordance with good industrial hygiene and safety practices.

#### Personal protective equipment

#### Respiratory protection

Put on Respirator with grey B-type filter with high gas/vapour concentrations.

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Wear protective gloves made of the following materials:

acid-resistant protective gloves

Glove material Polychloroprene (PCP)

Material thickness 0.5 mm

Break through time 480 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

Glove material butyl-rubber

Material thickness 0.5 mm

Break through time 480 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

Glove material Fluorinated rubber (FKM)

Material thickness 0.4 mm

Break through time 480 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

Glove material PVC

Material thickness 0.5 mm

Break through time 480 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

preventive skin protection

Use barrier cream regularly.

**Eye protection**

Safety glasses with side-shields

**Skin and body protection**

Avoid contaminating clothes with product.

Immediately change moistened and saturated work clothes.

preventive skin protection

**Hygiene measures**

No eating, drinking, smoking, or snuffing tobacco at work.

Wash hands before breaks and at the end of workday.

**Protective measures**

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

Form powder

Colour white

Odour sour

pH < 1 (260 g / l) Medium: Water

Density 2.1 g/cm<sup>3</sup>

Water solubility 278 g/l

Autoinflammability Not capable of spontaneous combustion or heating.

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Thermal decomposition 205 °C

**9.2. Other information**

Ignition temperature n.a.

Bulk density ca. 600 kg/m<sup>3</sup>**10. Stability and reactivity****10.1. Reactivity**

no data available

**10.2. Chemical stability**

The product is chemically stable.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions No dangerous reactions known.

**10.4. Conditions to avoid**

No limitations

**10.5. Incompatible materials**

halogens, oxidizing agents, alkalines

**10.6. Hazardous decomposition products**

sulphur dioxide

ammonia

nitrous gases

**11. Toxicological information****11.1. Information on toxicological effects**Acute oral toxicity LD50 Rat: 3160 mg/kg  
Related to substance: sulfamic acid

Acute inhalation toxicity no data available

Acute dermal toxicity no data available

Skin irritation Rabbit  
strongly corrosive  
Related to substance: sulfamic acidEye irritation Rabbit  
strongly corrosive  
Related to substance: sulfamic acid

Sensitization no data available

Repeated dose toxicity no data available

Mutagenicity assessment no data available

Carcinogenicity No data available

Toxicity to reproduction No data available

Further information No hazardous reactions are known if properly handled and stored.

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No ecotoxicological data is available for this product.

**12.2. Persistence and degradability**

Biodegradability no data available

**12.3. Bioaccumulative potential**

Bioaccumulation no data available

**12.4. Mobility in soil**

Mobility No data available

**12.5. Results of PBT and vPvB assessment**

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**12.6. Other adverse effects**

Further Information Introduction into soil, natural water bodies or sewerage must be prevented.  
Harmful to aquatic organisms.  
Noxious effect due to pH shift  
Toxic effect due to products of decomposition (sulphur dioxide sulphur trioxide)

**13. Disposal considerations****13.1. Waste treatment methods****Product**

Disposal according to local authority regulations.

**Uncleaned packaging**

Disposal according to local authority regulations.

**14. Transport information****Transport on land (ADR/RID/GGVSEB)**

14.1. UN number:	UN 2967
14.2. UN proper shipping name:	SULPHAMIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
ADR: Tunnel Restriction Code: (E)	

**Inland waterway transport (ADN/GGVSEB (Germany))**

14.1. UN number:	UN 2967
14.2. UN proper shipping name:	SULPHAMIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

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**DeguDent**  
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14.1. UN number:	UN 2967
14.2. UN proper shipping name:	Sulphamic acid
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
IATA-C: ERG-Code	8L
IATA-P: ERG-Code	8L

**Sea transport IMDG-Code/GGVSee (Germany)**

14.1. UN number:	UN 2967
14.2. UN proper shipping name:	SULPHAMIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No
EmS:	F-A,S-B

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:  
for transport approval see regulatory information

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

employment restriction

The employment limitations under the protection of young persons act, the laws on pregnant women and young mothers and work at home is/are to be observed.

**15.2. Chemical safety assessment**

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

**16. Other information****Risk phrase (R phrase) texts**• **sulfamic acid**

R36/38

Irritating to eyes and skin.

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Texts of the H-phrases**• **sulfamic acid**

H319

Causes serious eye irritation.

H315

Causes skin irritation.

H412

Harmful to aquatic life with long lasting effects.

**Further information**

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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**Legend**

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCi</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization