SECTION 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)6181/59-5576
Telefax: +49 (0)6181/59-5879
Email address: SDB.Degudent-DE@dentsplysirona.com

1.4. Emergency telephone number

Emergency information: +49 (0)6181/59-50 (This telephone number is available during office hours only.)

SECTION 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

2.2. Label elements

Labelling as per (EU) 1272/2008

hazard-defining component(s) (GHS)

- sulfamic acid

Hazard pictograms

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

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

SECTION 3: Composition/information on ingredients

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

• **sulfamic acid**			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

Texts of H phrases, see in Chapter 16

SECTION 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.
Obtain medical attention.

Skin contact
Wash off with soap and plenty of water.
Obtain medical attention.

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 mouth.
Immediately give large quantities of water to drink.
Call 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

SECTION 5: Firefighting measures

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.

SECTION 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.
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.

SECTION 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 practice.

Personal protective equipment

Respiratory protection

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

Hand protection

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/face 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.

SECTION 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
Melting point/range	no data available			
Boiling point/range	no data available			
Flash point	no data available			
Flammability (solid, gas)	no data available			
Lower explosion limit	no data available			
Upper explosion limit	no data available			
Density	2.1 g/cm3			
Relative density	no data available			
Water solubility	278 g_l			
Partition coefficient: n-octanol/water	no data available			

Autoinflammability	Not capable of spontaneous combustion or heating.
Thermal decomposition	205 °C
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available
Explosiveness	no data available
Oxidizing properties	no data available

9.2. Other information

Ignition temperature	n.a.
Bulk density	ca. 600 kg/m3

SECTION 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

SECTION 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 acid
Eye 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.

SECTION 12: Ecological information

12.1. Toxicity

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)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 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

Air transport ICAO-TI/IATA-DGR

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 transportapproval see regulatory information

SECTION 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 Regulatione is required for this product.

SECTION 16: Other information

Relevant H phrases from chapter 3

H315	:	Causes skin irritation.
H319	:	Causes serious eye 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

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

VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization