

Printing date 14.08.2012 Version number 1 Revision: 14.08.2012

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

- · 1.1 Product identifier
- · Trade name: R4
- · Article number / formula: 281S
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the preparation : dental product
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SEPTODONT.

58 rue du Pont de Creteil 94100 Saint Maur des Fosses

France

Téléphone: +33(0)149767000 Fax: +33(0)148855401 msds@septodont.com http://www.septodont.com

· 1.4 Emergency telephone number:

France (ORFILA 24h/24) - Tel: +33 (0)1 45 42 59 59

Ireland - Tel: 00 353 1 8092568 - 00 353 1 8379964 (24h/24)

EU Tel: 112

### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008:



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC:



F; Highly flammable

R11: Highly flammable.

· Information concerning particular hazards for human and environment:

The product has to be labelled in the latest valid version according to the calculation procedure of the "General Classification guideline for preparations of the EU".

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · 2.2 Label elements
- $\cdot$  Labelling according to EU guidelines:

The product has been marked in accordance with EU Directives / respective national laws. 2008/58/CE (30eme ATP); 2009/2/CE (31eme ATP); 2006/8/CE

· Code letter and hazard designation of product:



F Highly flammable





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· Risk phrases:

11 Highly flammable.

· Safety phrases:

60 This material and its container must be disposed of as hazardous waste.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable. · **vPvB**: Not applicable.

### SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterization: Mixtures
- · Description: Mixture: consisting of the following components.

· Dangerous components:		
CAS: 64-17-5	ethanol	25-50%
EINECS: 200-578-6		
	🚸 Flam. Liq. 2, H225	
CAS: 18472-51-0	D-gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-	≤1%
EINECS: 242-354-0	2,4,11,13-tetraazatetradecanediamidine (2:1)	
	🗶 Xi R36; 🝢 N R50	
	🕸 Aquatic Acute 1, H400; 🐠 Eye Irrit. 2, H319	

<sup>·</sup> Additional information: For the wording of the listed risk phrases, refer to section 16.

### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · After excessive inhalation: Supply fresh air; consult a doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult a 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.

### **SECTION 5: Firefighting measures**

· 5.1 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

• 6.1 Personal precautions, protective equipment and emergency procedures : Wear protective equipment. Keep unprotected persons away.

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· 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). Ensure adequate ventilation.

· 6.4 Reference to other sections :

See Section 7 for information on safe handling.

See Section 8 for information on personal protective equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· 7.1 Precautions for safe handling:

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

· Information about fire - and explosion protection:





Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

### SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol (25-50%)

WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

· Additional information:

As a basis for the production of this document, the most current valid lists were used.

- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Gloves material:

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked before

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use.

 $\cdot$  Eye protection:



Tightly sealed goggles

9.1 Information on basic physical and che	emical properties
General Information	mical properties
Appearance:	
Form:	Liquid
Colour:	Colourless
Odour:	Pungent
Odour threshold:	Not determined.
pH-value at 20°C:	4.3-5.3
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78°C
Flash point:	13°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	425°C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive a vapour mixtures are possible.
Explosion limits:	
Lower:	3.5 Vol %
Upper:	15.0 Vol %
Vapour pressure at 20°C:	59 hPa
Density at 20°C:	$0.94-0.95 \text{ g/cm}^3$
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC (EC)	40.03 %



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• 9.2 Other information: No further relevant information available.

### SECTION 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: No dangerous decomposition products known.

### SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · On the skin: No irritant effect.
- · On the eyes: No irritant effect.
- · Sensitization: No sensitizing effects known.

### SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: No further relevant information available.
- 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 2 (German Regulation) (Self-assessment): hazardous for water



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 12.5 Results of PBT and vPvB assessment
- $\cdot$  **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects: No further relevant information available.

### SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation :

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
   Recommended cleansing agents: Water, if necessary together with cleansing agents.

14.1 UN-Number	
ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHY
HAD C	ALCOHOL)), special provision 640D
· IMDG	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHY ALCOHOL))
IATA	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
14.3 Transport hazard class(es)	
ADR	
· Class	3 (F1) Flammable liquids.
· Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33 B. F. G. F.
EMS Number:	F-E, <u>S-E</u>
14.7 Transport in bulk according to Anne. MARPOL73/78 and the IBC Code	x <b>II of</b> Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Transport category	2





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· UN "Model Regulation":

UN1993, FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL)), special provision 640D, 3, II

### **SECTION 15: Regulatory information**

· 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

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

R11 Highly flammable.

R36 Irritating to eyes.

R50 Very toxic to aquatic organisms.

#### · Abbreviations and acronyms:

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 Harmonized System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds (USA, EU)

GB .