

SAFETY DATA SHEET (EC 1907/2006)

Stabilor IV plus

Material no.		Version	1.4 / GB
Specification	102756	Revision date	22.11.2011
VA-Nr	01628706	Print Date	02.12.2011
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A Dentsply Company

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name	Stabilor IV plus
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
Emergency telephone number	+49 (0)180 / 23 24-555

Use of the Substance / Preparation For dental use only.

REACH Registration No.: if available listed in Chapter. 3

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not a hazardous material according to the Directive (EEC) No. 1272/2008 .

GHS-Labeling

Statutory basis Labelling not required according to EU-CLP Ordinance (1272/2008).

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

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

Other Hazards

Zinc oxide fumes is released during processing

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

● Gold	62.2%
CAS-No. 7440-57-5	EC-No. 231-165-9
● platinum	4.4%
CAS-No. 7440-06-4	EC-No. 231-116-1
● Iridium	0.1%
CAS-No. 7439-88-5	EC-No. 231-095-9
● silver	22.5%
CAS-No. 7440-22-4	EC-No. 231-131-3
● copper	9.8%
CAS-No. 7440-50-8	EC-No. 231-159-6
● zinc	1.0%

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CAS-No.	7440-66-6	EC-No.	231-175-3
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Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

• Gold	62.2%
CAS-No. 7440-57-5	EC-No. 231-165-9
• platinum	4.4%
CAS-No. 7440-06-4	EC-No. 231-116-1
• Iridium	0.1%
CAS-No. 7439-88-5	EC-No. 231-095-9
• silver	22.5%
CAS-No. 7440-22-4	EC-No. 231-131-3
• copper	9.8%
CAS-No. 7440-50-8	EC-No. 231-159-6
• zinc	1.0%
CAS-No. 7440-66-6	EC-No. 231-175-3
	F; R15, R17 N; R50/53

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

4. FIRST AID MEASURES

Inhalation

Dusts and vapours:
Remove to fresh air.

Eye contact

Dusts and vapours:
Rinse thoroughly with plenty of water keeping eyelid open.
Consult an ophthalmologist.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

special powder against metal fire, quenching powder, dry sand, common salt

Unsuitable extinguishing media

water, carbon dioxide (CO₂)

Special hazards arising from the substance or mixture

The product itself does not burn.

Special protective equipment for fire-fighters

Employ protective equipment commonly used in the event of fire.

Advice for firefighters

Adapt fire extinguishing methods to site.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

No special precautions required.

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Methods and material for containment and cleaning up

Use mechanical handling equipment.

7. HANDLING AND STORAGE**Handling****Precautions for safe handling**

When melting, soldering and grinding:

Do not breathe Dusts and vapours:.

Local ventilation.

No particular measures required if used correctly.

If occurs dust / vapour: Wear personal protective equipment

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

• platinum			
CAS-No.	7440-06-4	EC-No.	231-116-1
Control parameters	1 mg/m3		Time Weighted Average (TWA):(EU ELV)
Control parameters	5 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
• silver			
CAS-No.	7440-22-4	EC-No.	231-131-3
Control parameters	0.1 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
Control parameters	0.1 mg/m3		Time Weighted Average (TWA):(EU ELV)
	Indicative		
• copper			
CAS-No.	7440-50-8	EC-No.	231-159-6
Control parameters	0.2 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Fume.		
Control parameters	1 mg/m3		Time Weighted Average (TWA):(EH40 WEL)
type of exposition	Inhalable dusts and mists.		
Control parameters	2 mg/m3		Short Term Exposure Limit (STEL):(EH40 WEL)
type of exposition	Inhalable dusts and mists.		

Engineering measures

Zinc oxide fumes is released during processing

When melting, soldering and grinding:

Ensure that there is suitable air extraction / ventilation at the workplace or at the working machines.

Extractor suction on specific objects.

Personal protective equipment**Respiratory protection**

If workplace exposure limit is exceeded apply Dust mask with P2 particle filter.

Hand protection

No special protective equipment required.

Eye protection

Safety glasses with side-shields

Skin and body protection

No particular measures required.

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Handle in accordance with good industrial hygiene and safety practices.

No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.

Do not inhale fumes, dust, vapour.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	solid
Colour	yellow
Odour	odourless

Information on basic physical and chemical properties

Melting point/range	870 - 925 °C
Density	14.1 g/cm ³

10. STABILITY AND REACTIVITY

Conditions to avoid	No restrictions
Incompatible materials	None known
Hazardous decomposition products	decomposition products if heated above melting point. Metallic vapours

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	no data available
Acute inhalation toxicity	no data available
Acute dermal toxicity	no data available
Skin irritation	no data available
Eye irritation	no data available
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 dangerous reactions are known to occur with correct handling and storage.

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12. ECOLOGICAL INFORMATION

Further information on ecology

Further Information

Dusts and water soluble alloy types:

Prevent penetration into soil, stretches of water and drainage systems.

13. DISPOSAL CONSIDERATIONS

Product

Can be used after re-conditioning.

14. TRANSPORT INFORMATION

Transport/further information

Not dangerous according to transport regulations.

15. REGULATORY INFORMATION

National legislation

16. OTHER INFORMATION

Risk phrase (R phrase) texts

- **zinc**

R15

Contact with water liberates extremely flammable gases

R17

Spontaneously flammable in air.

R50/53

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

Texts of the H-phrases

Further information

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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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 (geschlossenes Gefäß)
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
DNEL	Derived No Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
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 DGR	International Air Transport Association – Dangerous Goods Regulations
ICAO-TI	International Civil Aviation Organisation - Technical Instructions
IMDG Code	International Maritime Dangerous Goods Code
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 (offenes Gefäß)
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Effect Concentration
PNEC	Predicted No Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TA	Technical Instructions (German Ordinance)
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances (German Regulations)
VCI	German "Verband der Chemischen Industrie e. V."
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	German Water Hazard Class
WHO	World Health Organization