

Safety data sheet according to 1907/2006/EC

According to: 1907/2006/EC

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

1.1 Product identifier

Trade name: **Servo-Fix (fluid)**
Type / article number: REF 2100027

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

Uses of the substance or mixture:

Auxiliary in dental technology

Uses advised against:

No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier

Servo-Dental GmbH & Co. KG

Street/P.O Box

Rohrstraße 30

Post code/City

DE-58093 Hagen, Germany

Informing department

Technical information: Fon +49-2331 9591-0

Telephone / fax / email:

+49(0)2331/9591-0 / +49(0)2331/9591-25 / info@servo-dental.de

1.4 Emergency telephone number / E-Mail

Giftnotruf Universität Mainz / Poison Information Center Mainz, www.giftinfo.uni-mainz.de, Telefon:+49 (0)6131/19240

* **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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:



GHS02



GHS07

Signal word: Danger

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Hazard-determining components of labelling

contains: propan-2-ol

Hazard statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.

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 characterisation: Mixtures

Description: -

Dangerous components:

Component: propan-2-ol
CAS: 67-63-0 EINECS: 200-661-7
Amount : 50 - 95 %
Classification according to Regulation (EC) No 1272/2008:
Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

(For the wording of the listed hazard phrases refer to section 16.)

* SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation

Supply fresh air; consult doctor in case of symptoms.

After skin contact

The product is not skin irritating.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

* SECTION 5: Firefighting measures

5.1 Extinguishing media

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Not suitable: -

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment: No special measures required.

Additional information

* SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Prevent material from reaching sewage system, holes and cellars.

Dilute with much water.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

Ensure adequate ventilation.

6.4 Reference to other sections

No dangerous materials are released.

See Section 8 for information on personal protection equipment.

* SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed.

Information about protection against explosions and fires

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers: Store in cool location.

Information about storage in one common storage facility: Not required

Further information about storage conditions: Store in cool, dry conditions in well sealed containers.

7.3 Specific end use(s)

No further relevant information available.

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* **SECTION 8: Exposure controls/personal protection**

Additional information about design of technical systems:

No further data; see item 7.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

Component: propan-2-ol; CAS no. : 67-63-0

Specification : OES ()

Value : Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 999 mg/m³, 400 ppm

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Eye protection

Protective goggles are recommended.

Tightly sealed safety glasses.

Protection of hands

Check protective gloves prior to each use for their proper condition.
recommended

Gloves

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 can not 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:

Butyl rubber, BR

Nitrile rubber, NBR

Body protection:

Light weight protective clothing

Breathing equipment

Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

* **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

General Information

- Appearance / Form: fluid

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- Colour :	colorless
Smell:	Alcohol-like
Odour threshold:	Not determined.
pH value :	Not determined.
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	55 °C
Flash point:	5 °C
Inflammability (solid, gaseous):	Not applicable
Critical values for explosion:	Lower: 2 Vol % Upper: 12.0 Vol %
Steam pressure:	48 hPa @ 20 °C
Steam density :	Not determined.
Density:	0.8 g/cm ³ @ 20 °C
Solubility in / Miscibility with:	Fully soluble with water
Partition coefficient (n-octanol/water):	Not determined.
Self-inflammability:	Product is not selfigniting.
Decomposition temperature:	Not determined.
Viscosity:	Not determined..
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible..
Solvent content:	
· Water:	4.0 %
· VOC EU	769.7 g/l

9.2 Other information

No further relevant information available.

* SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Conditions to be avoided:
No decomposition if used and stored 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

None
Additional information: -

* SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Acute toxicity

Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification: CAS 67-63-0 propan-2-ol

Oral LD50 4570 mg/kg (rat)

Dermal LD50 13400 mg/kg (rab)

Inhalative LC50/4 h 30 mg/l (rat)

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

* **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity: 67-63-0 propan-2-ol

EC50/48h 13299 mg/l (daphnia)

EC50/72h >1000 mg/l (algae)

LC50/96h 1400 mg/l (fish)

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: Do not allow undiluted product or large quantities of it to reach ground water, water bodies 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.

* **SECTION 13: Disposal considerations**

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13.1 Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Waste disposal key number: 55503.

Uncleaned packagings

Recommendation: Disposal must be made according to official regulations.
Recommended cleaning agent: Water, if necessary with cleaning agent.

European waste catalogue

18 01 06 chemicals consisting of or containing dangerous substances

* SECTION 14: Transport information

14.1 UN Number

ADR, ADN, IMDG, IATA: UN1993

14.2 UN proper shipping name

ADR 1993 FLAMMABLE LIQUID, N.O.S. (vapor pressure at 50 °C at most 110 kPa) (ISOPROPANOL (ISOPROPYL ALCOHOL))

IMDG, IATA FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))

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: yes / no

14.6 Special precautions for user

Special precautions for user Warning: Flammable liquids.

· Kemler Number: 33

· EMS Number: F-E,S-E

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information: -

ADR

· Limited quantities (LQ) 1L

· Transport category 2

· Tunnel restriction code D/E

UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S., 3, II

* SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Changes compared to the previous version

* Data compared to the previous version altered

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 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

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

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Wording of hazard phrases and precautionary phrases listed in Sections 2 to 15

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.