

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2010

Revision: 27.01.2010

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**

- **Trade name:** ZENOTEC Scan Spray

- **Application of the substance / the preparation** Auxiliary for manufacture of dental prothesis

- **Manufacturer/Supplier:**

Wieland Dental + Technik GmbH & Co.KG

Schwenninger Str. 13

75179 Pforzheim

Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959

- **Further information obtainable from:**

Abteilung Umweltschutz

Marcus.Mueller@wieland-dental.de

- **Information in case of emergency:**

+49 (07231)-37050

(Be kindly advised that this number can only be contacted at usual office hours.)

2 Hazards identification

- **Hazard description:**



Xi Irritant

F+ Extremely flammable

- **Information concerning particular hazards for human and environment:**

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

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

R 36 Irritating to eyes.

R 67 Vapours may cause drowsiness and dizziness.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Keep out of the reach of children

- **Classification system:**

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

3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** Active substance with propellant

- **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7	butane	F+; R 12	50-100%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	Xi, F; R 11-36-67	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane	F+; R 12	10-25%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:** Rinse with warm water.

(Contd. on page 2)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2010

Revision: 27.01.2010

Trade name: ZENOTEC Scan Spray

(Contd. of page 1)

- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Keep away from ignition sources.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Allow to evaporate.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Keep ignition sources away - Do not smoke.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Protect from frost.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

106-97-8 butane

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
-----	---

(Contd. on page 3)

GB

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2010

Revision: 27.01.2010

Trade name: ZENOTEC Scan Spray

(Contd. of page 2)

67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
-----	--

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Not required.
- **Material of gloves -**
- **Penetration time of glove material** Void
- **Eye protection:** Safety glasses
- **Body protection:** Void

9 Physical and chemical properties

· General Information

Form:	Aerosol
Colour:	White
Odour:	Alcohol-like

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Ignition temperature:** 365°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.

· Explosion limits:

Lower:	1.5 Vol %
Upper:	12.0 Vol %

· **Vapour pressure at 20°C:** 2900 hPa

· **Density at 20°C:** 0.72 g/cm³

· **Solubility in / Miscibility with water:** Partly soluble.

· **pH-value:** Not applicable

· Solvent content:

Organic solvents:	100.0 %
--------------------------	---------

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

GB

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2010

Revision: 27.01.2010

Trade name: ZENOTEC Scan Spray

(Contd. of page 3)

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

67-63-0 propan-2-ol

Oral	LD50	4570 mg/kg (Ratte)
Dermal	LD50	13400 mg/kg (rab)
Inhalative	LC50/4 h	30 mg/l (Ratte)

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information

- **Information about elimination (persistence and degradability):**

- **Other information:** The product is easily biodegradable.

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04	gases in pressure containers (including halons) containing dangerous substances

- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.

- **Danger code (Kemler):** -

- **UN-Number:** 1950

- **Packaging group:** -

- **Hazard label** 2.1

- **Description of goods:** 1950 AEROSOLS

- **Limited quantities (LQ)** LQ2

- **Transport category** 2

(Contd. on page 5)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2010

Revision: 27.01.2010

Trade name: ZENOTEC Scan Spray

(Contd. of page 4)

· Tunnel restriction code D

· Maritime transport IMDG:



· **IMDG Class:** 2.1
 · **UN Number:** 1950
 · **Label** 2.1
 · **Packaging group:** -
 · **EMS Number:** F-D,S-U
 · **Marine pollutant:** No
 · **Proper shipping name:** AEROSOLS

· Air transport ICAO-TI and IATA-DGR:



· **ICAO/IATA Class:** 2.1
 · **UN/ID Number:** 1950
 · **Label** 2.1
 · **Packaging group:** -
 · **Proper shipping name:** AEROSOLS, flammable

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xi Irritant
 F+ Extremely flammable

· **Risk phrases:**

12 Extremely flammable.
 36 Irritating to eyes.
 67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

16 Keep away from sources of ignition - No smoking.
 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
 24/25 Avoid contact with skin and eyes.
 51 Use only in well-ventilated areas.
 60 This material and its container must be disposed of as hazardous waste.

· **Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
 Keep out of the reach of children

· **National regulations:**· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

GB

(Contd. on page 6)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 27.01.2010

Revision: 27.01.2010

Trade name: ZENOTEC Scan Spray

(Contd. of page 5)

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 R-phrases**

- 11 Highly flammable.
- 12 Extremely flammable.
- 36 Irritating to eyes.
- 67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** Abteilung Umweltschutz

· **Contact:** Herr Marcus Müller

· *** Data compared to the previous version altered.**

GB