

Safety data sheet

according to 1907/2006/EC, Article 31





Printing date 09.11.2011 Version : 11.3

Revision: 09.11.2011

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

- . Trade name **T1 Spray**
- . Application of the substance / the preparation Attachment for dental instruments
- . 1.3 Details of the supplier of the safety data sheet
- . Manufacturer/Supplier: Supplier: SIRONA Dental Systems GmbH
Fabrikstraße 31
D-64625 Bensheim
- http://www.sirona.de
- Telefon: +49(0)6251/16-3440
Telefax: +49(0)6251/16-2935
- Manufacturer: Graichen Produktions-und Vertriebs-GmbH
Darmstädterstraße 127-129
D-64625 Bensheim
- . Informing department: Environment protection department
- . 1.4 Emergency telephone number: Advice centre for poisoning university Mainz phone +49(0)6131/19240
or poison information: +49(0)700/GIFTINFO

* 2 Hazards identification

- . 2.1 Classification of the substance or mixture
- . Classification according to Directive 67/548/EEC or Directive 1999/45/EC
-  Xi; Irritant
- R38: Irritating to skin.
-  F+; Extremely flammable
- R12: Extremely flammable.
- R52/53-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Vapours may cause drowsiness and dizziness.
- . 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.
- . Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
- . 2.2 Label elements
- . Labelling according to EU guidelines: The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- . Code letter and hazard designation of product:   Xi Irritant
F+ Extremely flammable
- . Risk phrases: 12 Extremely flammable.
38 Irritating to skin.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67 Vapours may cause drowsiness and dizziness.
- . Safety phrases: 2 Keep out of the reach of children.
3 Keep in a cool place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe fumes/aerosol.
29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

Special labelling of certain preparations:

Identification as aerosol under § 6(3) Ordinance on Hazardous Materials (GefStoffV):

Keep away from sources of ignition.

No smoking.

Keep out of the reach of children.

Without adequate ventilation formation of explosive mixtures may be possible.

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

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

Classification in accordance with Directive 75/324/EEC:

2.3 Other hazards

Extremely flammable

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

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition. No smoking.

Without adequate ventilation formation of explosive mixtures may be possible.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

* 3 Composition/information on ingredients












3.2 Chemical characterization: Mixtures

Description: Active substance with propellant.

Additional information:

Active substance: Synthetic hydrogencarbon-oil, esteroil
no dangerous components 67,5 - 25 %

Dangerous components:

EINECS: 265-151-9	Spezialbenzin	10-25%
	 Xn R65;  Xi R38;  F R11;  N R51/53	
	R67	
CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	10-25%
EINECS: 203-448-7	 F+ R12	
CAS: 74-98-6	propane	10-25%
EINECS: 200-827-9	 F+ R12	
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))	2.5-10%
EINECS: 200-857-2	 F+ R12	
CAS: 110-54-3	n-hexane	< 2.5%
EINECS: 203-777-6	 Xn R48/20-62-65;  Xi R38;  F R11;  N R51/53	
	R67	
	Repr. Cat. 3	

* 4 First aid measures

4.1 Description of first aid measures

General information: Personal protection for the First Aider.

After inhalation: In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air; consult doctor in case of symptoms.

After skin contact: If skin irritation continues, consult a doctor.

Instantly wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: A person vomiting while lying on their back should be turned onto their side.

Information for doctor

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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. **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

* **5 Firefighting measures**

. **5.1 Extinguishing media**

. **Suitable extinguishing agents:**

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

. **For safety reasons unsuitable extinguishing agents**

Water with a full water jet.

. **5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire
Carbon monoxide (CO)
Carbondioxid (CO₂)

. **5.3 Advice for firefighters**

. **Protective equipment:**

Wear self-contained breathing apparatus.

. **Additional information**

Cool endangered containers with water spray jet.

* **6 Accidental release measures**

. **6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources
Ensure adequate ventilation
Bring persons out of danger.

. **6.2 Environmental precautions:**

Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.

. **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

. **6.4 Reference to other sections**

Do not flush with water or aqueous cleansing agents
See Section 8 for information on personal protection equipment.

* **7 Handling and storage**

. **Handling**

. **7.1 Precautions for safe handling**

Open and handle container with care.
No special precautions necessary if used correctly.

. **Information about protection against explosions and fires:**

Keep away from ignition sources - Do not smoke.
Protect against electrostatic charges.
Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use.
Do not spray on flames or red-hot objects.

. **7.2 Conditions for safe storage, including any incompatibilities**

. **Storage**

. **Requirements to be met by storerooms and containers:**

Store in cool location.
Observe official regulations on storing packagings with pressurized containers.

. **Information about storage in one single storage facility:**

Store away from food.

. **Further information about storage conditions:**

Protect from heat and direct sunlight.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.

. **7.3 Specific end use(s)**

No further relevant information available.

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* **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:**
 - EINECS: 265-151-9 Naphhta (petroleum), hydrotreated light
 - OES 600 mg/m³, 170ml/m³
- . **106-97-8 butane (containing ≤0,1 % butadiene (106-99-0))**
 - WEL Short-term value: 1810 mg/m³, 750 ppm
 - Long-term value: 1450 mg/m³, 600 ppm
 - Carc (if more than 0.1% of buta-1.3-diene)
- . **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**
 - 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.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
- . **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- . **Protection of hands:** Solvent resistant gloves
- . **Material of gloves** Nitrile rubber, NBR
 - Recommended thickness of the material: ≥ 0,7 mm
- . **Penetration time of glove material** Value for the permeation: Level ≥ 0,7 mm 480 min (8h)EN 374
 - The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- . **Eye protection:** Tightly sealed safety glasses.

* **9 Physical and chemical properties**

- . **9.1 Information on basic physical and chemical properties**
- . **General Information**
- . **Appearance:**
 - Form: Aerosol
 - Colour: Colourless
 - Smell: Characteristic
- . **Change in condition**
 - Boiling point/Boiling range: -44°C
- . **Flash point:** -97°C
- . **Ignition temperature:** 200°C
- . **Self-inflammability:** Product is not selfigniting.
- . **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.
- . **Critical values for explosion:**
 - Lower: 1.1 Vol %
 - Upper: 10.9 Vol %
- . **Steam pressure at 20°C:** 8300 hPa
- . **Density at 20°C** 0.695 g/cm³
- . **Solubility in / Miscibility with Water:** Not miscible or difficult to mix

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. 9.2 Other information No further relevant information available.

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

* 11 Toxicological information

- . 11.1 Information on toxicological effects
- . Acute toxicity:
- . LD/LC50 values that are relevant for classification:
- Spezialbenzin**
- Oral LD50 > 2000 mg/kg (rat)
- Dermal LD50 > 2000 mg/kg (rabbit)
- Inhalative LC50/4 h > 20 mg/l (rat)
- . Primary irritant effect:
- . on the skin: Irritant for skin and mucous membranes.
- . on the eye: Irritant effect.
- . Sensitization: No sensitizing effect known.
- . Additional toxicological information: The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

* 12 Ecological information

- . 12.1 Toxicity
- . Aquatic toxicity: No further relevant information available.
- . 12.2 Persistence and degradability No further relevant information available.
- . Behaviour in environmental systems:
- . 12.3 Bioaccumulative potential No further relevant information available.
- . 12.4 Mobility in soil No further relevant information available.
- . Ecotoxicological effects:
- . Remark: Harmful to fish
- . Additional ecological information:
- . General notes: Harmful to aquatic organisms
Water hazard class 1 (Self-assessment): slightly hazardous for water.
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.

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* **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.

. **European waste catalogue**

14 00 00 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)

14 06 00 waste organic solvents, refrigerants and foam/aerosol propellants

14 06 03* other solvents and solvent mixtures

. **Uncleaned packagings:**

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

* **14 Transport information**

. **14.1 UN-Number**

. **ADR, IMDG, IATA** UN1950

. **14.2 UN proper shipping name**

. **ADR** 1950 AEROSOLS

. **IMDG** AEROSOLS

. **IATA** AEROSOLS, flammable

. **14.3 Transport hazard class(es)**

. **ADR**

. **Class** 2 5F Gases.

. **Label** 2.1

. **IMDG, IATA**

. **Class** 2.1

. **Label** 2.1

. **14.4 Packing group**

. **ADR, IMDG, IATA** Void

. **14.5 Environmental hazards:**

. **Marine pollutant:** No

. **14.6 Special precautions for user**

. **Warning:** Gases.

. **Kemler Number:**

. **EMS Number:** F-D,S-U

. **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

. **Transport/Additional information:**

. **ADR**

. **Tunnel restriction code** D

* **15 Regulatory information**

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

. **National regulations:**

Class **Share in %**

I < 2,5

NK 50-100

. **Water hazard class:**

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

. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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* **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.

** Data compared to the previous version altered.*

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