Printing date 23.01.2007 Reviewed on 23.01.2007

1 Identification of substance

. Product details

T1 Spray . Trade name

. Application of the substance / the

preparation

Attachment for dental instruments

. Manufacturer/Supplier: Supplier: SIRONA Dental System 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

Advice centre for poisoning university Mainz phone +49(0)6131/19240 . Emergency information:

or poison information: +49(0)700/GİFTINFO

2 Composition/Data on components:

. Chemical characterization

. Description: Active substance with propellant.

Additional information:

Active substance: Synthetic hydrogencarbon-oil, esteroil

67,5 - 25 % no dangerous components

. Dangerous components:

EINECS: 265-151-9 Spezialbenzin 10-25%

Х́п, Хі, F, N; R 11-38-51/53-65-67

CAS: 106-97-8 butane (containing ≤ 0.1 % butadiene (106-99-0)) 10-25%

EINECS: 203-448-7 F+; R 12

propane CAS: 74-98-6 10-25%

EINECS: 200-827-9 F+; R 12

CAS: 75-28-5 isobutane (containing ≤ 0.1 % butadiene (106-99-0)) 2.5-10%

EINECS: 200-857-2 F+; R 12

3 Hazards identification

. Hazard designation: Xi Irritant

F+ Extremely flammable

. Information pertaining to particular dangers for man 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. Extremely flammable. R 12 Irritating to skin. R 38

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

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

sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

. 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.

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. Additional information: 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.

4 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: Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

. After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist,

consult doctor.

. After swallowing: Seek immediate medical advice.

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

* 5 Fire fighting measures

. 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 Special hazards caused by the material, its products of Water with a full water jet.

combustion or flue gases:

Can be released in case of fire

Carbon monoxide (CO) Carbondioxid (CO2)

. Protective equipment: Wear self-contained breathing apparatus.

. Additional information Cool endangered containers with water spray jet.

6 Accidental release measures

. Person-related safety precautions: Keep away from ignition sources

. Measures for environmental

protection: Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

. **Measures for cleaning/collecting:** Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Dispose of contaminated material as waste according to item 13.

7 Handling and storage

. Handling

. *Information 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 form 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.

. 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.

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. Further information about

storage conditions: Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

8 Exposure controls and personal protection

. Additional information about

design of technical systems: No further data; see item 7.

Components with critical values that require monitoring at the

workplace:

EIÑECS: 265-151-9 Naphhta (petroleum), hydrotreated light

 $OES\ 600\ mg/m^3,\ 170ml/m^3$

106-97-8 butane (containing $\leq 0.1 \%$ butadiene (106-99-0))

OES Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm

74-98-6 propane OES Asphyxiant

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

. 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.

Avoid contact with the eyes and skin.

. **Breathing equipment:** Use breathing protection in case of insufficient ventilation.

. **Protection of hands:**Solvent resistant 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:

. General Information

Form: Aerosol
Colour: Colourless
Smell: Characteristic

. Change in condition

Melting point/Melting range: Not determined

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 0.69259 g/cm³

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. Solubility in / Miscibility with

Water: Not miscible or difficult to mix

10 Stability and reactivity

. Thermal decomposition /

conditions to be avoided: No decomposition if used according to specifications.

. **Dangerous reactions** No dangerous reactions known

. Dangerous products of

composition: No dangerous decomposition products known

* 11 Toxicological information

. 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:

. Ecotoxical effects:

. **Remark:** Harmful to fish

. General notes: 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. Harmful to aquatic organisms

* | 13 Disposal considerations

. Product:

. 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

. Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

. ADR/RID-GGVS/E Class: 2 5F Gases.

. Kemler Number:

. UN-Number: 1950 . Packaging group: -

. Label 2.1

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. **Designation of goods:** 1950 AEROSOLS

. Maritime transport IMDG/GGVSea:
. IMDG/GGVSea Class:
. UN Number:
. Label
. Packaging group:

EMS Number: F-D,S-U

Marine pollutant: No

Correct technical name: AEROSOLS

. Air transport ICAO-TI and IATA-DGR:
. ICAO/IATA Class: 2.1
. UN/ID Number: 1950
. Label 2.1

. Packaging group:

. Correct technical name: AEROSOLS, flammable

15 Regulatory information

Designation according to EC

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.

9 Keep container in a well-ventilated place.

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.

46 If swallowed, seek medical advice immediately and show this container or

label.

51 Use only in well-ventilated areas.

Special designation 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. Keep away from

sources of ignition - No smoking.

Buildup of explosive mixtures possible without sufficient ventilation.

Keep out of the reach of children

. National regulations Class Share in %

III 25-50

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

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.

Department issuing data specification sheet:

Environment protection department.

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Mr. Roland Fell

Contact:* Data compared to the previous version altered.

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