

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 14.01.2010

Revision: 14.01.2010

1 Identification of substance

. Product details

. **Trade name** **RS-Spray**
 . **Application of the substance / the preparation** Attachment for dental instruments
 . **Manufacturer/Supplier:** Hager & Meisinger GmbH
 Hansemannstrasse 10
 41468 Neuss

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 Telefax: +49(0)2131/20 12 - 222
 e-mail : info@meisinger.de

. **Informing department:** QMB : Helmut Pötgen
 . **Emergency information:** During and outside office hours :
 Phone +49(0)2131/2012-0

2 Hazards identification

. **Hazard designation:** 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.
 R 12 Extremely flammable.
 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.
 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.

. **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.

3 Composition/information on ingredients

. Chemical characterization

. **Description:** Active substance with propellant.

. Dangerous components:

CAS: 106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))	F+; R 12	25-50%
EINECS: 203-448-7			
CAS: 109-87-5	dimethoxymethane	F; R 11	10-25%
EINECS: 203-714-2			
CAS: 67-64-1	acetone	Xi, F; R 11-36-66-67	10-25%
EINECS: 200-662-2			
CAS: 74-98-6	propane	F+; R 12	10-25%
EINECS: 200-827-9			
CAS: 75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))	F+; R 12	2.5-10%
EINECS: 200-857-2			

4 First aid measures

. **General information:** Instantly remove any clothing soiled by the product.
 Position and transport in a stable posture on side.

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- . After inhalation: Supply fresh air; consult doctor in case of symptoms.
- . After skin contact: Wash with water and soap and rinse thoroughly
Seek medical treatment.
- . After eye contact: Rinse opened eye for several minutes under running water. Then consult doctor.
- . After swallowing: Seek immediate medical advice.

5 Fire fighting measures

- . Suitable extinguishing agents: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
CO₂, sand, extinguishing powder. Do not use water.
- . For safety reasons unsuitable extinguishing agents: Water with a full water jet.
- . Protective equipment: Wear self-contained breathing apparatus.

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

7 Handling and storage

- . Handling
- . Information for safe handling: Open and handle container with care.
Ensure good ventilation/exhaustion at the workplace.
- . 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.
- . 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.
Store away from flammable substances.
- . Further information about storage conditions: Store container in a well ventilated position.
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:
 - 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)
 - 109-87-5 dimethoxymethane
 - WEL Short-term value: 3950 mg/m³, 1250 ppm
 - Long-term value: 3160 mg/m³, 1000 ppm

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67-64-1 acetoneWEL Short-term value: 3620 mg/m³, 1500 ppmLong-term value: 1210 mg/m³, 500 ppm

- . **Additional information:** The lists that were valid during the compilation were used as basis.
- . **Personal protective equipment**
- . **General protective and hygienic measures** Wash hands during breaks and at the end of the work.
Do not inhale gases / fumes / aerosols.
Avoid close or long term contact with the skin.
Do not eat or drink while working.
- . **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
- . **Protection of hands:** Solvent resistant gloves
- . **Material of gloves** Nitrile rubber, NBR
- . **Penetration time of glove material** Value for the permeation: Level $\geq 0,7$ 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:** 235°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: 1.5 Vol %
Upper: 17.6 Vol %

Steam pressure at 20°C: 8300 hPa**Density** Not determined**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 products of composition:** No dangerous decomposition products known

11 Toxicological information

- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** irritating effect
- . **on the eye:** Irritant effect.

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. **Sensitization:** No sensitizing effect known.

12 Ecological information:

. **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.

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** For empty packaging
EU-waste catalogue: 15 01 04
Metallic packaging
. **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
. **Designation of goods:** 1950 AEROSOLS
. **Maritime transport IMDG/GGVSea:**
. **IMDG/GGVSea Class:** 2.1
. **UN Number:** 1950
. **Label** 2.1
. **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:** F+ Extremely flammable
. **Risk phrases:** 12 Extremely flammable.
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.
16 Keep away from sources of ignition - No smoking.

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- 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.
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. National regulations

Class ~~SK~~ ~~50-100~~%

. 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.

. Contact:

QMB Helmut Pötgen

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