SAFETY DATA SHEETS

This SDS packet was issued with item:

075601497

N/A

Safety Data Sheet acc. to OSHA HCS

Printing date 02/05/2015 Reviewed on 02/05/2015

1 Identification

. Product identifier

. Trade name: T1 Spray 5140-0969 . Article number:

. Relevant identified uses of the substance

or mixture and uses advised against . Application of the substance / the mixture No further relevant information available.

Grinding auxiliary product

. Details of the supplier of the safety data sheet

Supplier::SIRONA Dental Systems GmbH . Manufacturer/Supplier:

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

. Information department: Environment protection department

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

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

2 Hazard(s) identification

Classification of the substance or mixture



Flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.



Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



H315 Causes skin irritation. Skin Irrit. 2

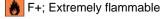
STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



R38: Irritating to skin.



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

The product has to be labeled due to the calculation procedure of international for human and environment:

guidelines.

Warning! Pressurized container.

Has a narcotizing effect.

. Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

. Label elements

The product is classified and labeled according to the Globally Harmonized System . GHS label elements

(GHS).

. Hazard pictograms







GHS02 GHS07 GHS08

. Signal word Danger

. Hazard-determining components of

labeling:

Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan, Naphtha (Erdöl), mit Wasserstoff

behandelte leichte

. Hazard statements Extremely flammable aerosol. Pressurized container: May burst if heated.

Causes skin irritation.

May cause drowsiness or dizziness.

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Trade name: T1 Spray

May be fatal if swallowed and enters airways.

Harmful to aquatic life with long lasting effects.

. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/

international regulations.

Health = 1

Health
Fire =
Reacti

Fire = 4 Reactivity = 3

. HMIS-ratings (scale 0 - 4)

. NFPA ratings (scale 0 - 4)

HEALTH 1 HOFIELD 1 HOFIELD

Health = 1 Fire = 4 Reactivity = 3

. Other hazards

. Results of PBT and vPvB assessment

. PBT: . vPvB: Not applicable. Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Synthetische Kohlenwasserstoff-Öl, Esteröl 25-50%

Description: Synthrtic hydrogencarbon-oil,esteroil Active substance with propellant

. Dangerous components: Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan, Naphtha (Erdöl), mit Wasserstoff behandelte leichte 10-25% X Nn R65; X Xi R38; F R11; N R51/53 R67 ♦ Flam. Liq. 2, H225; ♦ Asp. Tox. 1, H304; ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; STOT SE 3, H336; H401 106-97-8 butane (containing \leq 0,1 % butadiene (106-99-0)) 10-25% F+ R12 Flam. Gas 1, H220; Press. Gas, H280 74-98-6 propane 10-25% 👸 F+ R12 \delta Flam. Gas 1, H220; Press. Gas, H280 75-28-5 isobutane (containing < 0,1 % butadiene (106-99-0)) 2.5-10% 👸 F+ R12 Flam. Gas 1, H220; Press. Gas, H280

. Additional information:

For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

. Description of first aid measures

. General information: Personal protection for the First Aider.

. After inhalation: In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

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

Immediately wash with water and soap and rinse thoroughly. Rinse opened eye for several minutes under running water.

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

. After swallowing:

. After eye contact:

. Information for doctor:

. Most important symptoms and effects,

both acute and delayed

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

. Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or

alcohol resistant foam.

CO2, sand, extinguishing powder. Do not use water.

. For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO) Carbondioxid (CO2)

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Trade name: T1 Spray

. Advice for firefighters

(Contd. of page 2)

Protective equipment:

Additional information

Wear self-contained respiratory protective device.

Cool endangered receptacles with water spray.

6 Accidental release measures

. Personal precautions, protective

equipment and emergency procedures

Ensure adequate ventilation Keep away from ignition sources

. Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage

system.

. Methods and material for containment

and cleaning up:

Ensure adequate ventilation.

. Reference to other sections

Do not flush with water or aqueous cleansing agents See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

. Handling:

. Precautions for safe handling

. . . .

Information about protection against

explosions and fires:

Open and handle receptacle with care.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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.

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

. Conditions for safe storage, including any incompatibilities

. 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:

Store away from foodstuffs.

Further information about storage

conditions:

Protect from heat and direct sunlight. Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

No further relevant information available.

8 Exposure controls/personal protection

. Additional information about design of

technical systems:

No further data; see item 7.

. Control parameters

Specific end use(s)

. Components with limit values that require

monitoring at the workplace:

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

AGW 600 mg/m³, 170ml/m³ (gërman rule)

106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))

REL Long-term value: 1900 mg/m³, 800 ppm TLV Short-term value: 2370 mg/m³, 1000 ppm

74-98-6 propane

PEL Long-term value: 1800 mg/m³, 1000 ppm REL Long-term value: 1800 mg/m³, 1000 ppm

TLV refer to Appendix F

75-28-5 isobutane (containing ≤ 0,1 % butadiene (106-99-0))

TLV Short-term value: 2370 mg/m³, 1000 ppm

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

. Exposure controls

Personal protective equipment:

General protective and hygienic

measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin. Not required.

. Breathing equipment:

. Protection of hands: Solvent resistant gloves

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Trade name: T1 Spray

Protective gloves

The glove material has to be impermeable and resistant to the product/ the

substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the

product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of

diffusion and the degradation

. Material of gloves Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.7 mm

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 Value for the permeation: Level ≤ 0,7 mm 480min (8h) EN374

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.

The exact break through time has to be found out by the manufacturer of the

protective gloves and has to be observed.

. Eye protection: Tightly sealed goggles

9 Physical and chemical properties

. Information on basic physical and chemical properties

. General Information

. Appearance:

Form: Aerosol Color: Colorless
. Odor: Characteristic
. Odour threshold: Not determined.
. pH-value: Not determined.

. Change in condition

Boiling point/Boiling range: -44 °C (-47 °F)

Flash point: -97 °C (-143 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 260 °C (500 °F)

Decomposition temperature: Not determined.

. Auto igniting: Product is not selfigniting.

. Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are

possible.

. Explosion limits:

Lower: 1.0 Vol % 10.9 Vol % 10.9 Vol % . Vapor pressure at 20 °C (68 °F): ~400 kPa

. Density at 20 °C (68 °F): 0.695 g/cm³ (5.8 lbs/gal)

. Relative density
. Vapour density
. Vapour density
. Evaporation rate

Not determined.
Not applicable.

. Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

. Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not determined.

. Solvent content:

VOC content: 65.1 %

. Other information No further relevant information available.

10 Stability and reactivity

. Reactivity

. Chemical stability

. Thermal decomposition / conditions to be

avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid
 Incompatible materials:
 No further relevant information available.
 No further relevant information available.

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Trade name: T1 Spray

. Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

- . Information on toxicological effects
- . Acute toxicity:

. LD/LC50 values that are relevant for classification:

Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan, Naphtha (Erdöl), mit Wasserstoff behandelte leichte

 Oral
 LD50
 > 2000 mg/kg (rat)

 Dermal
 LD50
 > 2000 mg/kg (rabbit)

 Inhalative
 LC50/4 h
 > 20 mg/l (rat)

106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))

Inhalative LC50/4 h 658 mg/l (rat)

. Primary irritant effect:

. on the skin: Irritant to skin and mucous membranes.

. on the eye: Irritating effect.

. Sensitization: No sensitizing effects known.

. Additional toxicological information: The product shows the following dangers according to internally approved

calculation methods for preparations:

Irritant

. Carcinogenic categories

. IARC (International Agency for Research on Cancer)

106-99-0 1,3-butadiene buta-1,3-diene 1

. NTP (National Toxicology Program)

106-99-0 1,3-butadiene buta-1,3-diene

. OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

. Toxicity

Aquatic toxicity:
 Persistence and degradability
 No further relevant information available.
 No further relevant information available.

. Behavior in environmental systems:

. Bioaccumulative potential

. Mobility in soil

No further relevant information available.

No further relevant information available.

. Ecotoxical effects:

. Remark:

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

course or sewage system.

Harmful to fish

. Results of PBT and vPvB assessment

. PBT: Not applicable. vPvB: Not applicable.

. Other adverse effects No further relevant information available.

13 Disposal considerations

. Waste treatment methods

. Recommendation: Must not be disposed of together with household garbage. Do not allow product to

reach sewage system.

. Uncleaned packagings:

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

14 Transport information

. UN-Number

. DOT, ADR, IMDG, IATA UN1950

. **UN proper shipping name**. DOT Aerosols, flammable
. ADR 1950 Aerosols

IMDG AEROSOLS

A AEROSOLS, flammable

(Contd. on page 6)

USA

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Trade name: T1 Spray (Contd. of page 5) . Transport hazard class(es) . DOT Class 2.1 2.1 Label . ADR Class 2 5F Gases Label . IMDG, IATA 2.1 2.1 . Class . Label . **Packing group** . DOT, ADR, IMDG, IATA Void . Environmental hazards: . Marine pollutant: Special precautions for user Warning: Gases . Danger code (Kemler): . EMS Number: F-D,S-U . Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. **Transport/Additional information:** . ADR . Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity . IMDG . Limited quantities (LQ) . Excepted quantities (ÉQ) Code: E0 Not permitted as Excepted Quantity

15 Regulatory information

. UN "Model Regulation":

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

. Sara

. Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
. Section 313 (Specific toxic chemical listings):	
110-54-3 n-hexane	
106-99-0 1,3-butadiene buta-1,3-diene	
. TSCA (Toxic Substances Control Act):	
106-97-8 b	outane (containing \leq 0,1 % butadiene (106-99-0))
74-98-6 p	
75-28-5 is	sobutane (containing \leq 0,1 % butadiene (106-99-0))
110-54-3 n	
106-99-0 1	,3-butadiene buta-1,3-diene

UN1950, Aerosols, 2.1

7732-18-5 Wasser

. Proposition 65

Chemicals known to cause cancer:

106-99-0 1,3-butadiene buta-1,3-diene

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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Trade name: T1 Spray

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1

Carcinogenic categories

. EPA (Environmental Protection Agency) 110-54-3 n-hexane 106-99-0 1,3-butadiene buta-1,3-diene CaH

TLV (Threshold Limit Value established by ACGIH)

106-99-0 1,3-butadiene buta-1,3-diene A2

MAK (German Maximum Workplace Concentration)

106-99-0 1,3-butadiene buta-1,3-diene

NIOSH-Ca (National Institute for Occupational Safety and Health)

106-99-0 1,3-butadiene buta-1,3-diene

The product is classified and labeled according to the Globally Harmonized System (GHS). . GHS label elements

. Hazard pictograms

GHS02 GHS07 GHS08

. Signal word Danger

. Hazard-determining components of

labeling:

Kohlenwasserstoffe, C6, Isoalkane, <5% n-Hexan, Naphtha (Erdöl), mit Wasserstoff

behandelte leichte

. Hazard statements Extremely flammable aerosol. Pressurized container: May burst if heated.

Causes skin irritation.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/

international regulations.

. National regulations:

. Technical instructions (air): Class | Share in % NK 50-100

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

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

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.

. Department issuing SDS: . Abbreviations and acronyms:

Environment protection department. Flam. Gas 1: Flammable gases, Hazard Category 1
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas: Gases under pressure: Compressed gas
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
: Hazardous to the aquatic environment - AcuteHazard, Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

* Data compared to the previous version altered.

LISA