



According to 1907/2006/EG, Article 31

Revision: 13.06.2014

HinriScan-Spray Basic**1. Identification of the substance / Preparation and Company:** *

Product identifier	
Commercial product name:	HinriScan-Spray Basic
Relevant identified uses of the substance or mixture and uses advised against:	No further relevant information available.
Application of the substance / the mixture:	Auxiliary for dental technology
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	ERNST HINRICHS Dental GmbH
Street / mailbox:	Borsigstr. 1
Country code. / postal code / city:	D - 38644 Goslar
Phone:	0 53 21 / 5 06 24
Fax:	0 53 21 / 5 08 81
E-mail / Website:	info@hinrichs-dental.de / www.hinrichs-dental.de
Further information obtainable from:	ERNST HINRICHS Dental GmbH
Emergency telephone number	
ERNST HINRICHS Dental GmbH:	+49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazards Identification:

Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
 Classification according to Directive 67/548/EEC or Directive 1999/45/EC



F+ Extremely flammable

R 12 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.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

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

Label elements:

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS02

Signal word: Danger.

Hazard statements:

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Additional information:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not









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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.
Keep out of the reach of children
Other hazards:
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

3. Composition/ information on ingredients *

Chemical characterization :		Mixtures	
Description:		Mixture of substances listed below with non-hazardous additions.	
Dangerous components			
CAS: 106-97-8 EINECS: 203-448-7	Butane	 F+ R12	50-100%
		 Flam. Gas 1, H220; Press. Gas, H280	
CAS: 74-98-6 EINECS: 200-827-9	Propane	 F+ R12	25-50%
		 Flam. Gas 1, H220; Press. Gas, H280	
CAS: 64-17-5 EINECS: 200-578-6	Ethanol	 F R11	2.5-10%
		 Flam. Liq. 2, H225	
Additional information :	For the wording of the listed risk phrases refer to section 16.		

4. First aid measures:

Description of first aid measures	
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Generally the product does not irritate the skin.
After eye contact:	Rinse open eye for several minutes under running water.
After swallowing:	If symptoms persist consult doctor.
Information for doctor:	
Most important symptoms and effects, both acute and delayed	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available.

5. Firefighting measures:

Extinguishing media	
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.
Special hazards arising from the substance or mixture:	No further relevant information available.
Advice for firefighters	
Protective equipment:	No special measures required.

6. Accidental release measures:

Personal precautions, protective equipment and emergency procedures:	Wear protective equipment. Keep unprotected persons away.
Environmental precautions :	Do not allow to enter sewers / surface or ground water.
Methods and material for containment and	Ensure adequate ventilation.



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cleaning up:
Reference to other sections: 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: Keep away from heat and direct sunlight.
Use only in well ventilated areas.
Open and handle receptacle with care.

Information about fire- and explosion protection: Do not spray onto a naked flame or any incandescent material.
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.

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.
Not required.

Information about storing in one common storage facility:
Further information about storage conditions: Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
No further relevant information available.

Specific end use(s):

8. Exposure controls / Personal protection:

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

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)
64-17-5 ethanol	
WEL	Long-term value: 1920 mg/m ³ , 1000 ppm

Additional information: The lists valid during the making were used as basis.
Exposure controls:
Personal protective equipment:
General protective and hygienic measures: Wash hands before breaks and at the end of work.
Respiratory protection: Not required.
Use suitable respiratory protective device in case of insufficient ventilation.


Protection of hands:
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.



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Material of gloves:	The selection of 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 cannot be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material:	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
As protection from splashes gloves made of the following materials are suitable:	Nitrile rubber, NBR. Butyl rubber, BR Natural rubber, NR
Eye protection:	 Tightly sealed goggles.

9. Physical and chemical properties:

*

Information on basic physical and chemical properties

General information:

Appearance:

Form:

Compressed liquefied gas

Colour:

Colourless

Odour:

Light

Odour threshold:

Not determined.

pH-value:

Not applicable.

Change in condition:

Melting point / Melting range:

Undetermined.

Boiling point / Boiling range:

-48 °C

Flash point:

-80 °C

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

365 °C

Decomposition temperature:

Not determined.

Self-igniting:

Product is not self-igniting.

Danger of explosion:

Product is not explosive. However, formations of explosive air/vapour mixtures are possible.

Explosion limits:

Lower:

1.5 Vol %

Upper:

10.9 Vol %

Vapour pressure at 20°C:

8300 hPa

Density at 20°C:

0.64 g/cm³

Relative density:

Not determined.

Vapour density:

Not determined.

Evaporation rate:

Not applicable.

Solubility in / Miscibility with water:

Not miscible or difficult to mix.

Partition coefficient (n-octanol/water):

Not determined.

Viscosity:

Dynamic:

Not determined.

Kinematic:

Not determined.

Solvent content:

Organic solvents:

98.0 %

VOC (EC)

97 %

Solids content:

2 %

Other information

No further relevant information available.



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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.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological Information:

Information on toxicological effects:
Acute toxicity:

LD/LC50 values relevant for classification:		
106-97-8 butane		
Inhalative	LC50/4 h	658 mg/l (rat)
64-17-5 ethanol		
Oral	LD50	7060 mg/kg (rat)
Inhalative	LC50/4 h	20000 mg/l (rat)

Primary irritant effect:
On the skin: No irritant effect.
On the eye: No irritating effect.
Sensitization: No sensitizing effects known.

12. Ecological Information:

Toxicity
Aquatic toxicity: No further relevant information available.
Persistence and degradability: The single components are biodegradable
Behaviour in environmental systems:
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Additional ecological information:
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.

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 together with household garbage. Do not allow product to reach sewage system.

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

14. Transport Information:

UN-Number	UN1950
ADR, IMDG, IATA	
UN proper shipping name	



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ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
Transport hazard class(es)	
ADR	
	
Class:	2.5F Gases
Label:	2.1
IMDG, IATA	
	
Class:	2.1
Label:	2.1
Packaging group:	
ADR, IMDG, IATA	Void.
Environmental hazards:	
Marine pollutant:	No.
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):	E0
Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	D
UN "Model Regulation":	UN1950, AEROSOLS, 2.1

15. Regulatory Information: *

Safety, health and environmental regulations/legislation specific for the substance or mixture
Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS02

Signal word: Danger.

Hazard statements:

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

16. Further 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.



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Relevant phrases:

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- R11 Highly flammable.
- R12 Extremely flammable.

Abbreviations and acronyms:

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

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